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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE R/V/MP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-3
 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
	Selenium	15	U		3.0	15	1	ug/L	137508		12/19/04 0521	tds
	Silver	10	U		0.72	10	1	ug/L	137508		12/19/04 0521	tds
	Sodium	1500	U		490	1500	1	ug/L	137508		12/19/04 0521	tds
	Vanadium	1.4	B		1.0	10	1	ug/L	137508		12/19/04 0521	tds
	Zinc	4.4	B		1.6	30	1	ug/L	137508		12/19/04 0521	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 12/21/2004

Job Number: 232497

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

Customer Sample ID: LL5sw-007-SW
 Date Sampled: 12/06/2004
 Time Sampled: 09:30
 Sample Matrix: Water

Laboratory Sample ID: 232497-3
 Date Received: 12/07/2004
 Time Received: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endrin	0.14	U		0.016	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	137734		12/14/04 2300	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	137734		12/14/04 2300	kdl
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	137734		12/14/04 2300	kdl
	Endrin ketone	0.096	U		0.028	0.096	1.00000	ug/L	137734		12/14/04 2300	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	137734		12/14/04 2300	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232497								Date: 12/20/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AGES				ATTN: Eric Ellis				
Customer Sample ID: LL5sw-007-SW						Laboratory Sample ID: 232497-3						
Date Sampled.....: 12/06/2004						Date Received.....: 12/07/2004						
Time Sampled.....: 09:30						Time Received.....: 10:00						
Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	137555		12/14/04 1756	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	137555		12/14/04 1756	bjt

* In Description = Dry Mgt.

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Job Number: 232497		LABORATORY TEST RESULTS						Date: 12/18/2004					
CUSTOMER: MKM Engineers, Inc.		PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis							
Customer Sample ID: LL5sw-007-SW		Laboratory Sample ID: 232497-3		Date Sampled: 12/06/2004		Date Received: 12/07/2004		Time Sampled: 09:30		Time Received: 10:00		Sample Matrix: Water	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8260B	Volatile Organics	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Vinyl chloride	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Bromomethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Chloroethane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,1-Dichloroethene	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Carbon disulfide	10	U		1.8	10	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Acetone	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Methylene chloride	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	trans-1,2-Dichloroethene	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,1-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	cis-1,2-Dichloroethene	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0137	jdj	
	2-Butanone (MEK)	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Bromochloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Chloroform	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,1,1-Trichloroethane	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Carbon tetrachloride	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,2-Dichloroethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Trichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,2-Dichloropropane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Bromodichloromethane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	cis-1,3-Dichloropropene	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0137	jdj	
	4-Methyl-2-pentanone (MIBK)	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Toluene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	1,1,2-Trichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj	
	Tetrachloroethene	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0137	jdj	
	2-Hexanone		U										

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232497						Date: 12/18/2004						
CUSTOMER: MKM Engineers, Inc.						PROJECT: USAGE RVAAP 14 ACS			ATTN: Eric Ellis			
Customer Sample ID: LL5sw-007-SW						Laboratory Sample ID: 232497-3						
Date Sampled.....: 12/06/2004						Date Received.....: 12/07/2004						
Time Sampled.....: 09:30						Time Received.....: 10:00						
Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UUNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0137	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-3
 Date Received.....: 12/07/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	QT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	137499		12/13/04 0540	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-3
 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
	4-Chloro-3-methylphenol, Low Level Water	9.7	U	2.3	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U	0.11	0.49	1.00000	ug/L	137499		12/13/04 0540	dpk
	2-Nitrophenol, Low Level Water	9.7	U	0.80	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	3-Nitroaniline, Low Level Water	9.7	U	2.0	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	Dimethyl phthalate, Low Level Water	1.9	U	0.20	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4-Dinitrophenol, Low Level Water	19	U	3.2	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	Acenaphthylene, Low Level Water	0.97	U	0.12	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U	0.13	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Acenaphthene, Low Level Water	0.97	U	0.12	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Dibenzofuran, Low Level Water	1.9	U	0.13	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Nitrophenol, Low Level Water	19	U	3.6	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	Fluorene, Low Level Water	0.97	U	0.13	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Nitroaniline, Low Level Water	9.7	U	2.2	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U	0.18	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Hexachlorobenzene, Low Level Water	0.49	U	0.094	0.49	1.00000	ug/L	137499		12/13/04 0540	dpk
	Diethyl phthalate, Low Level Water	1.9	U	0.15	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U	0.73	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Pentachlorophenol, Low Level Water	9.7	U	1.7	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U	0.13	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U	2.3	19	1.00000	ug/L	137499		12/13/04 0540	dpk
	Phenanthrene, Low Level Water	0.97	U	0.14	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Anthracene, Low Level Water	0.97	U	0.15	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Carbazole, Low Level Water	4.9	U	0.28	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U	0.35	4.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Fluoranthene, Low Level Water	0.97	U	0.14	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Pyrene, Low Level Water	0.97	U	0.12	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U	0.38	1.9	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U	0.048	0.19	1.00000	ug/L	137499		12/13/04 0540	dpk
	Chrysene, Low Level Water	0.49	U	0.044	0.49	1.00000	ug/L	137499		12/13/04 0540	dpk

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LABORATORY TEST RESULTS		Job Number: 232497		Date: 12/20/2004								
CUSTOMER: MKM Engineers, Inc.		PROJECT: USACE RVAAP 14 AOCs		ATTN: Eric Ellis								
Customer Sample ID: LL5sw-007-SW		Laboratory Sample ID: 232497-3		Date Received: 12/07/2004								
Date Sampled: 12/06/2004		Date Received: 12/07/2004		Time Received: 10:00								
Time Sampled: 09:30												
Sample Matrix: Water												
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	137499		12/13/04 0540	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	137499		12/13/04 0540	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U		2.4	9.7	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.065	0.39	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.070	0.39	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	137499		12/13/04 0540	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.083	0.39	1.00000	ug/L	137499		12/13/04 0540	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	137499		12/13/04 0540	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	137499		12/13/04 0540	dpk

* In Description = Dry Wgt.

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Job Number: 232497		LABORATORY TEST RESULTS						Date: 12/21/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-007-SW			Laboratory Sample ID: 232497-3									
Date Sampled: 12/06/2004			Date Received: 12/07/2004									
Time Sampled: 09:30			Time Received: 10:00									
Sample Matrix: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDC	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	137651		12/15/04 1607	bdw	
	RDX	0.20	U	0.064	0.20	1.00000	ug/L	137651		12/15/04 1607	bdw	
	1,3,5-Trinitrobenzene	0.20	U	0.058	0.20	1.00000	ug/L	137651		12/15/04 1607	bdw	
	1,3-Dinitrobenzene	0.20	U	0.055	0.20	1.00000	ug/L	137651		12/15/04 1607	bdw	
	Nitrobenzene	0.16	U	0.044	0.16	1.00000	ug/L	137651		12/15/04 1607	bdw	
	2,4,6-TNT	0.25	U	0.078	0.25	1.00000	ug/L	137651		12/15/04 1607	bdw	
	Tetryl	0.78	U	0.16	0.78	1.00000	ug/L	137651		12/15/04 1607	bdw	
	2,4-Dinitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137651		12/15/04 1607	bdw	
	2,6-Dinitrotoluene	0.43	U	0.14	0.43	1.00000	ug/L	137651		12/15/04 1607	bdw	
	2-Amino-4,6-Dinitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137651		12/15/04 1607	bdw	
	4-Amino-2,6-Dinitrotoluene	0.33	U	0.11	0.33	1.00000	ug/L	137651		12/15/04 1607	bdw	
	2-Nitrotoluene	0.31	U	0.093	0.31	1.00000	ug/L	137651		12/15/04 1607	bdw	
	4-Nitrotoluene	0.31	U	0.10	0.31	1.00000	ug/L	137651		12/15/04 1607	bdw	
	3-Nitrotoluene	0.31	U	0.10	0.31	1.00000	ug/L	137651		12/15/04 1607	bdw	

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232497								Date: 01/04/2005				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: 1L5sw-007-DUP Date Sampled.....: 12/06/2004 Time Sampled.....: 09:30 Sample Matrix.....: Water						Laboratory Sample ID: 232497-4 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	1600			57	200	1000	mg/L	137053		12/14/04 1401	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 12/20/2004

Job Number: 232497

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

Customer Sample ID: LL5sw-007-DUP
 Date Sampled: 12/06/2004
 Time Sampled: 09:30
 Sample Matrix: Water

Laboratory Sample ID: 232497-4
 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
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	136643		12/08/04 2009	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136622		12/08/04 1810	daj
7421	Lead (GFAA) Lead	3.0		U	0.79	3.0	1	ug/L	136730		12/09/04 1755	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	136776		12/09/04 1527	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137144		12/14/04 1441	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	430			24	150	1	ug/L	137508		12/19/04 0616	tds
	Barium	25			1.3	10	1	ug/L	137508		12/19/04 0616	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0616	tds
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0616	tds
	Calcium	32000			9.5	100	1	ug/L	137508		12/19/04 0616	tds
	Chromium	1.2		B	1.1	10	1	ug/L	137508		12/19/04 0616	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137508		12/19/04 0616	tds
	Copper	10		U	2.2	10	1	ug/L	137508		12/19/04 0616	tds
	Iron	350			38	120	1	ug/L	137508		12/19/04 0616	tds
	Magnesium	1600			8.1	100	1	ug/L	137508		12/19/04 0616	tds
	Manganese	41			0.41	10	1	ug/L	137508		12/19/04 0616	tds
	Nickel	10		U	1.0	10	1	ug/L	137508		12/19/04 0616	tds
	Potassium	1100			66	500	1	ug/L	137508		12/19/04 0616	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/20/2004

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

Customer Sample ID: LL5sw-007-DUP
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-4
 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
	Selenium	3.6	B		3.0	15	1	ug/L	137508		12/19/04 0616	tds
	Silver	10	U		0.72	10	1	ug/L	137508		12/19/04 0616	tds
	Sodium	560	B		490	1500	1	ug/L	137508		12/19/04 0616	tds
	Vanadium	1.4	B		1.0	10	1	ug/L	137508		12/19/04 0616	tds
	Zinc	3.6	B		1.6	30	1	ug/L	137508		12/19/04 0616	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 12/21/2004

Job Number: 232497

CUSTOMER: MKM Engineers, Inc. PROJECT: USAGE RVAMP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-DUP
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-4
 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
8081A	Organochlorine Pesticide Analysis	0.15	U		0.046	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	alpha-BHC	0.097	U		0.027	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	beta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	delta-BHC	0.15	U		0.041	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	gamma-BHC (Lindane)	0.15	U		0.040	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	Heptachlor	0.097	U		0.027	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	Aldrin	0.15	U		0.035	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	Heptachlor epoxide	0.097	U		0.020	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endosulfan I	0.097	U		0.017	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	Dieldrin	0.097	U		0.022	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	4,4'-DDE	0.097	U		0.017	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endrin	0.15	U		0.041	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endosulfan II	0.11	U		0.035	0.11	1.00000	ug/L	137734		12/15/04 0015	kdL
	4,4'-DDD	0.15	U		0.043	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endosulfan sulfate	0.15	U		0.048	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	4,4'-DDT	0.58	U		0.17	0.58	1.00000	ug/L	137734		12/15/04 0015	kdL
	Methoxychlor	0.049	U		0.016	0.049	1.00000	ug/L	137734		12/15/04 0015	kdL
	alpha-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	gamma-Chlordane	0.15	U		0.034	0.15	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endrin aldehyde	0.097	U		0.028	0.097	1.00000	ug/L	137734		12/15/04 0015	kdL
	Endrin ketone	0.49	U		0.14	0.49	1.00000	ug/L	137734		12/15/04 0015	kdL
	Toxaphene											

* In Description = Dry Wgt.

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Job Number: 232497		LABORATORY TEST RESULTS							Date: 12/20/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-007-DUP Date Sampled.....: 12/06/2004 Time Sampled.....: 09:30 Sample Matrix.....: Water			Laboratory Sample ID: 232497-4 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
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	137555		12/14/04 1910	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	137555		12/14/04 1910	bjt

* 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: LL5sw-007-DUP
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-4
 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
82608	Volatile Organics	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Chloromethane	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Vinyl chloride	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Bromomethane	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Chloroethane	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,1-Dichloroethene	5.0	U	0.20	5.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Carbon disulfide	10	U	1.8	10	1.00000	ug/L	137286		12/16/04 0245	jdj
	Acetone	1.5	U	0.35	1.5	1.00000	ug/L	137286		12/16/04 0245	jdj
	Methylene chloride	1.0	U	0.14	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	trans-1,2-Dichloroethene	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,1-Dichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	cis-1,2-Dichloroethene	1.0	U	1.2	10	1.00000	ug/L	137286		12/16/04 0245	jdj
	2-Butanone (MEK)	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Bromochloromethane	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Chloroform	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,1,1-Trichloroethane	1.0	U	0.13	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Carbon tetrachloride	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Benzene	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,2-Dichloroethane	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Trichloroethene	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,2-Dichloropropane	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Bromodichloromethane	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	cis-1,3-Dichloropropene	10	U	0.65	10	1.00000	ug/L	137286		12/16/04 0245	jdj
	4-Methyl-2-pentanone (MIBK)	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Toluene	1.0	U	0.15	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	trans-1,3-Dichloropropene	1.0	U	0.15	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,1,2-Trichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Tetrachloroethene	10	U	0.53	10	1.00000	ug/L	137286		12/16/04 0245	jdj
	2-Hexanone										

* 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: LL5sw-007-DUP Laboratory Sample ID: 232497-4
 Date Sampled.....: 12/06/2004 Date Received.....: 12/07/2004
 Time Sampled.....: 09:30 Time Received.....: 10:00
 Sample Matrix.....: Water

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 0245	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Bromoforn	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0245	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/20/2004

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

Customer Sample ID: LL5sw-007-DUP
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-4
 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
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	137499		12/13/04 0648	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/20/2004

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

Customer Sample ID: LL5sw-007-DUP Laboratory Sample ID: 232497-4
 Date Sampled.....: 12/06/2004 Date Received.....: 12/07/2004
 Time Sampled.....: 09:30 Time Received.....: 10:00
 Sample Matrix.....: Water

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	137499		12/13/04 0648	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	137499		12/13/04 0648	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Nitroaniline, Low Level Water	9.7	U		2.2	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	137499		12/13/04 0648	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	137499		12/13/04 0648	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Fluoranthene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Pyrene, Low Level Water	0.14	J		0.12	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzo(a)anthracene, Low Level Water	0.17	J		0.048	0.19	1.00000	ug/L	137499		12/13/04 0648	dpk
	Chrysene, Low Level Water	0.23	J		0.044	0.49	1.00000	ug/L	137499		12/13/04 0648	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/20/2004

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

Customer Sample ID: LL5sw-007-DUP Laboratory Sample ID: 232497-4
 Date Sampled.....: 12/06/2004 Date Received.....: 12/07/2004
 Time Sampled.....: 09:30 Time Received.....: 10:00
 Sample Matrix.....: Water

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	137499		12/13/04 0648	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	12	J		3.8	15	1.00000	ug/L	137499		12/13/04 0648	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U		2.4	9.7	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzo(b)fluoranthene, Low Level Water	0.18	J	H	0.065	0.39	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzo(k)fluoranthene, Low Level Water	0.36	J		0.070	0.39	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzo(a)pyrene, Low Level Water	0.25	J		0.082	0.39	1.00000	ug/L	137499		12/13/04 0648	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.29	J		0.083	0.39	1.00000	ug/L	137499		12/13/04 0648	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.31	J		0.13	0.39	1.00000	ug/L	137499		12/13/04 0648	dpk
	Benzo(ghi)perylene, Low Level Water	0.32	J		0.18	0.97	1.00000	ug/L	137499		12/13/04 0648	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497 Date: 12/21/2004

CUSTOMER: NKM Engineers, Inc. ATTN: Eric Ellis

PROJECT: USACE RVAAP 14 AOCs

Customer Sample ID: LL5sw-007-DUP
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-4
 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
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	137651		12/15/04 1817	bdw
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	137651		12/15/04 1817	bdw
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	137651		12/15/04 1817	bdw
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	137651		12/15/04 1817	bdw
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	137651		12/15/04 1817	bdw
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	137651		12/15/04 1817	bdw
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	137651		12/15/04 1817	bdw
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	137651		12/15/04 1817	bdw
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137651		12/15/04 1817	bdw
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	137651		12/15/04 1817	bdw
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	137651		12/15/04 1817	bdw
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	137651		12/15/04 1817	bdw
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137651		12/15/04 1817	bdw
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137651		12/15/04 1817	bdw

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232497								Date: 01/04/2005				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE R/VAMP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL5sw-008-SW						Laboratory Sample ID: 232497-5						
Date Sampled.....: 12/06/2004						Date Received.....: 12/07/2004						
Time Sampled.....: 11:15						Time Received.....: 10:00						
Sample Matrix.....: Water												
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)	2500			110	400	2000	mg/L	137053		12/14/04 1424	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS		Date: 12/20/2004									
Job Number: 232497		CUSTOMER: HCN Engineers, Inc.									
PROJECT: USACE RVARP 14 AOCs		ATTN: Eric Ellits									
Customer Sample ID: LL5sw-008-SW		Laboratory Sample ID: 232497-5									
Date Sampled.....: 12/06/2004		Date Received.....: 12/07/2004									
Time Sampled.....: 11:15		Time Received.....: 10:00									
Sample Matrix.....: Water											
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 1133	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U	0.51	2.0	1	ug/L	136622		12/08/04 1822	daj
7421	Lead (GFAA) Lead	3.0	U	0.79	3.0	1	ug/L	136730		12/09/04 1807	daj
7841	Thallium (GFAA) Thallium	4.0	U	1.3	4.0	1	ug/L	136776		12/09/04 1539	daj
7470A	Mercury (CVAA) Mercury	0.20	U	0.063	0.20	1	ug/L	137144		12/14/04 1443	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum	730		24	150	1	ug/L	137508		12/19/04 0623	tds
	Barium	25		1.3	10	1	ug/L	137508		12/19/04 0623	tds
	Beryllium	2.0	U	0.25	2.0	1	ug/L	137508		12/19/04 0623	tds
	Cadmium	2.0	U	0.25	2.0	1	ug/L	137508		12/19/04 0623	tds
	Calcium	38000		9.5	100	1	ug/L	137508		12/19/04 0623	tds
	Chromium	10	U	1.1	10	1	ug/L	137508		12/19/04 0623	tds
	Cobalt	5.0	U	0.80	5.0	1	ug/L	137508		12/19/04 0623	tds
	Copper	10	U	2.2	10	1	ug/L	137508		12/19/04 0623	tds
	Iron	750		38	120	1	ug/L	137508		12/19/04 0623	tds
	Magnesium	3300		8.1	100	1	ug/L	137508		12/19/04 0623	tds
	Manganese	9.2	B	0.41	10	1	ug/L	137508		12/19/04 0623	tds
	Nickel	10	U	1.0	10	1	ug/L	137508		12/19/04 0623	tds
	Potassium	1400		66	500	1	ug/L	137508		12/19/04 0623	tds

* In Description = Dry Wgt.

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Job Number: 232497		LABORATORY TEST RESULTS						Date: 12/20/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL5sw-008-SW			Laboratory Sample ID: 232497-5									
Date Sampled.....: 12/06/2004			Date Received.....: 12/07/2004									
Time Sampled.....: 11:15			Time Received.....: 10:00									
Sample Matrix.....: Water												
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	137508		12/19/04 0623	tds
	Silver	10		U	0.72	10	1	ug/L	137508		12/19/04 0623	tds
	Sodium	810		B	490	1500	1	ug/L	137508		12/19/04 0623	tds
	Vanadium	1.5		B	1.0	10	1	ug/L	137508		12/19/04 0623	tds
	Zinc	6.6		B	1.6	30	1	ug/L	137508		12/19/04 0623	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 12/21/2004

Job Number: 232497

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

Customer Sample ID: LL5sw-008-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 11:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-5
 Date Received.....: 12/07/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis	0.15	U		0.046	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	alpha-BHC	0.098	U		0.027	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	beta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	delta-BHC	0.15	U		0.041	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	gamma-BHC (Lindane)	0.15	U		0.040	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	Heptachlor	0.098	U		0.027	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	Aldrin	0.15	U		0.035	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	Heptachlor epoxide	0.098	U		0.021	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endosulfan I	0.098	U		0.018	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	Dieldrin	0.098	U		0.023	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	4,4'-DDE	0.098	U		0.017	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endrin	0.15	U		0.041	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endosulfan II	0.11	U		0.035	0.11	1.00000	ug/L	137734		12/15/04 0040	kdl
	4,4'-DDD	0.15	U		0.043	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endosulfan sulfate	0.15	U		0.048	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	4,4'-DDT	0.59	U		0.17	0.59	1.00000	ug/L	137734		12/15/04 0040	kdl
	Methoxychlor	0.049	U		0.016	0.049	1.00000	ug/L	137734		12/15/04 0040	kdl
	alpha-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	gamma-Chlordane	0.15	U		0.034	0.15	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endrin aldehyde	0.098	U		0.028	0.098	1.00000	ug/L	137734		12/15/04 0040	kdl
	Endrin ketone	0.49	U		0.14	0.49	1.00000	ug/L	137734		12/15/04 0040	kdl
	Toxaphene											

* In Description = Dry Wgt.

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Job Number: 232497		LABORATORY TEST RESULTS							Date:12/20/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-008-SW Date Sampled.....: 12/06/2004 Time Sampled.....: 11:15 Sample Matrix.....: Water			Laboratory Sample ID: 232497-5 Date Received.....: 12/07/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	137555		12/14/04 1934	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	137555		12/14/04 1934	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RYAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-008-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 11:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-5
 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	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Chloromethane	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Vinyl chloride	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Bromomethane	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Chloroethane	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,1-Dichloroethene	5.0	U	0.20	5.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Carbon disulfide	10	U	1.8	10	1.00000	ug/L	137286		12/16/04 0308	jdj
	Acetone	1.5	U	0.35	1.5	1.00000	ug/L	137286		12/16/04 0308	jdj
	Methylene chloride	1.0	U	0.14	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	trans-1,2-Dichloroethene	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,1-Dichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	cis-1,2-Dichloroethene	10	U	1.2	10	1.00000	ug/L	137286		12/16/04 0308	jdj
	2-Butanone (MEK)	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Bromochloromethane	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Chloroform	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,1,1-Trichloroethane	1.0	U	0.13	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Carbon tetrachloride	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Benzene	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,2-Dichloroethane	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Trichloroethene	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,2-Dichloropropane	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Bromodichloromethane	1.0	U	0.12	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	cis-1,3-Dichloropropene	10	U	0.65	10	1.00000	ug/L	137286		12/16/04 0308	jdj
	4-Methyl-2-pentanone (MIBK)	1.0	U	0.10	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Toluene	1.0	U	0.15	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	trans-1,3-Dichloropropene	1.0	U	0.15	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,1,2-Trichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Tetrachloroethene	10	U	0.53	10	1.00000	ug/L	137286		12/16/04 0308	jdj
	2-Hexanone										

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 232497						Date: 12/18/2004					
CUSTOMER: NKM Engineers, Inc.				PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis			
Customer Sample ID: LL5sw-008-SW Date Sampled.....: 12/06/2004 Time Sampled.....: 11:15 Sample Matrix.....: Water						Laboratory Sample ID: 232497-5 Date Received.....: 12/07/2004 Time Received.....: 10:00					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI 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 0308	jdj
	1,2-Dibromoethane (EDB)	1.0	U	0.13	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Chlorobenzene	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Ethylbenzene	1.0	U	0.070	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	m&p-Xylenes	2.0	U	0.18	2.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	o-Xylene	1.0	U	0.080	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Styrene	1.0	U	0.13	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Bromoform	1.0	U	0.11	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,1,2,2-Tetrachloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	1,2-Dichloroethene (total)	1.0	U	0.23	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj
	Xylenes (total)	1.0	U	0.28	1.0	1.00000	ug/L	137286		12/16/04 0308	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAMP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-008-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 11:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-5
 Date Received.....: 12/07/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAG	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	137499		12/13/04 0710	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.42	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137499		12/13/04 0710	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	137499		12/13/04 0710	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.60	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.098	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Nitrobenzene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzoic acid, Low Level Water	20	U		2.9	20	1.00000	ug/L	137499		12/13/04 0710	dpk
	Isophorone, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U		1.3	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.63	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Naphthalene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U		0.89	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Chloroaniline, Low Level Water	9.8	U		2.7	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U		1.4	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	137499		12/13/04 0710	dpk	
2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	137499		12/13/04 0710	dpk	
2-Nitroaniline, Low Level Water	4.9	U		0.22	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk	
2-Chloronaphthalene, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk	

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS										Date: 12/20/2004		
Job Number: 232497					PROJECT: USACE RVAMP 14 AOCs					ATTN: Eric Ellis		
CUSTOMER: NKM Engineers, Inc.					Customer Sample ID: LL5sw-008-SW					Laboratory Sample ID: 232497-5		
					Date Sampled.....: 12/06/2004					Date Received.....: 12/07/2004		
					Time Sampled.....: 11:15					Time Received.....: 10:00		
					Sample Matrix.....: Water							
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	137499		12/13/04 0710	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	137499		12/13/04 0710	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	137499		12/13/04 0710	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	137499		12/13/04 0710	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	137499		12/13/04 0710	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137499		12/13/04 0710	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	137499		12/13/04 0710	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzo(a)anthracene, Low Level Water	0.12	J		0.048	0.20	1.00000	ug/L	137499		12/13/04 0710	dpk
	Chrysene, Low Level Water	0.17	J		0.044	0.49	1.00000	ug/L	137499		12/13/04 0710	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS		Date: 12/20/2004										
Job Number: 232497		PROJECT: USACE RVAAP 14 AOCs							ATTN: Eric Ellis			
Customer Sample ID: LL5sw-008-SW		Laboratory Sample ID: 232497-5										
Date Sampled.....: 12/06/2004		Date Received.....: 12/07/2004										
Time Sampled.....: 11:15		Time Received.....: 10:00										
Sample Matrix.....: Water												
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	137499		12/13/04 0710	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	137499		12/13/04 0710	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzo(k)fluoranthene, Low Level Water	0.20	J		0.071	0.39	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	137499		12/13/04 0710	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.20	J		0.084	0.39	1.00000	ug/L	137499		12/13/04 0710	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	137499		12/13/04 0710	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	137499		12/13/04 0710	dpk

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-008-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 11:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-5
 Date Received.....: 12/07/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q. FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)										
	HMX	0.31	U	0.068	0.31	1.00000	ug/L	137651		12/15/04 1849	bdw
	RDX	0.20	U	0.064	0.20	1.00000	ug/L	137651		12/15/04 1849	bdw
	1,3,5-Trinitrobenzene	0.20	U	0.058	0.20	1.00000	ug/L	137651		12/15/04 1849	bdw
	1,3-Dinitrobenzene	0.20	U	0.055	0.20	1.00000	ug/L	137651		12/15/04 1849	bdw
	Nitrobenzene	0.16	U	0.044	0.16	1.00000	ug/L	137651		12/15/04 1849	bdw
	2,4,6-TNT	0.25	U	0.078	0.25	1.00000	ug/L	137651		12/15/04 1849	bdw
	Tetryl	0.78	U	0.16	0.78	1.00000	ug/L	137651		12/15/04 1849	bdw
	2,4-Dinitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137651		12/15/04 1849	bdw
	2,6-Dinitrotoluene	0.43	U	0.14	0.43	1.00000	ug/L	137651		12/15/04 1849	bdw
	2-Amino-4,6-Dinitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137651		12/15/04 1849	bdw
	4-Amino-2,6-Dinitrotoluene	0.33	U	0.11	0.33	1.00000	ug/L	137651		12/15/04 1849	bdw
	2-Nitrotoluene	0.31	U	0.093	0.31	1.00000	ug/L	137651		12/15/04 1849	bdw
	4-Nitrotoluene	0.31	U	0.10	0.31	1.00000	ug/L	137651		12/15/04 1849	bdw
	3-Nitrotoluene	0.31	U	0.10	0.31	1.00000	ug/L	137651		12/15/04 1849	bdw
8332M	NG/PETN by 8332M (HPLC)										
	Nitroglycerine	0.21	J	0.15	1.0	1.00000	ug/L	137646		12/09/04 0719	bdw

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL5sw-008-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L070388-001 Work Order #...: G0GPT1AC Matrix.....: WATER
Date Sampled...: 12/06/04 11:15 Date Received...: 12/07/04
Prep Date.....: 12/13/04 Analysis Date...: 12/14/04
Prep Batch #...: 4348574
Dilution Factor: 1 Initial Wgt/Vol: 10 mL Final Wgt/Vol...: 10 mL

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

STL CHICAGO

Client Sample ID: LL5sw-008-SW

General Chemistry

Lot-Sample #...: G4L070388-001
Date Sampled...: 12/06/04

Work Order #...: G0GPT
Date Received...: 12/07/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
		MDL.....: 0.12				

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Job Number: 232540		LABORATORY TEST RESULTS						Date: 01/03/2005				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-009-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 09:20 Sample Matrix.....: Water			Laboratory Sample ID: 232540-9 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.16	B		0.057	0.20	1	mg/L	137053		12/14/04 1340	kd

* In Description = Dry Wgt.

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Job Number: 232540		LABORATORY TEST RESULTS						Date:01/03/2005				
CUSTOMER: H2M Engineers, Inc.			PROJECT: USACE RMAAP 14 ADDS			ATTN: ERIC ELLIS						
Customer Sample ID: LL5sw-009-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 09:20 Sample Matrix.....: Water			Laboratory Sample ID: 232540-9 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
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	137013		12/13/04 1438	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136999		12/13/04 2009	daj
7421	Lead (GFAA) Lead	1.6		B	0.79	3.0	1	ug/L	137235		12/16/04 0604	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	137028		12/13/04 1650	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137472		12/17/04 1406	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	730			24	150	1	ug/L	137992		12/22/04 1442	lmr
	Barium	27			1.3	10	1	ug/L	137992		12/22/04 1442	lmr
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137992		12/22/04 1442	lmr
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137992		12/22/04 1442	lmr
	Calcium	38000			9.5	100	1	ug/L	137992		12/22/04 1442	lmr
	Chromium	1.4		B	1.1	10	1	ug/L	137992		12/22/04 1442	lmr
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137992		12/22/04 1442	lmr
	Copper	10		U	2.2	10	1	ug/L	137992		12/22/04 1442	lmr
	Iron	990			38	120	1	ug/L	138123		12/28/04 0326	lmr
	Magnesium	3500			8.1	100	1	ug/L	137992		12/22/04 1442	lmr
	Manganese	12			0.41	10	1	ug/L	137992		12/22/04 1442	lmr
	Nickel	10		U	1.0	10	1	ug/L	137992		12/22/04 1442	lmr
	Potassium	1400			66	500	1	ug/L	137992		12/22/04 1442	lmr

* In Description = Dry Wgt.

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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 1442	Lmr
		Silver	10		U	0.72	10	1	ug/L	137992		12/22/04 1442	Lmr
		Sodium	570		B	490	1500	1	ug/L	137992		12/22/04 1442	Lmr
		Vanadium	1.1		B	1.0	10	1	ug/L	137992		12/22/04 1442	Lmr
		Zinc	6.4		B	1.6	30	1	ug/L	137992		12/22/04 1442	Lmr

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232540		LABORATORY TEST RESULTS						Date:12/21/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAMP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-009-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 09:20 Sample Matrix.....: Water			Laboratory Sample ID: 232540-9 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
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endrin	0.096	U		0.016	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	137782		12/17/04 2142	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	137782		12/17/04 2142	kdl
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	137782		12/17/04 2142	kdl
	Endrin ketone	0.096	U		0.028	0.096	1.00000	ug/L	137782		12/17/04 2142	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	137782		12/17/04 2142	kdl

* In Description = Dry Wgt.

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Job Number: 232540 LABORATORY TEST RESULTS Date: 12/21/2004

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

Customer Sample ID: LL5sw-009-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 09:20
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-9
 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
8082	PCB Analysis											
	Aroclor 1016	0.58		U	0.17	0.58	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1221	1.2		U	0.40	1.2	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1232	1.2		U	0.34	1.2	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1242	1.2		U	0.41	1.2	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1248	1.4		U	0.46	1.4	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1254	1.2		U	0.34	1.2	1.00000	ug/L	137736		12/15/04 2124	bjt
	Aroclor 1260	0.58		U	0.16	0.58	1.00000	ug/L	137736		12/15/04 2124	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVMAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-009-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 09:20
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-9
 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 1717	jdh
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Acetone	10	U		1.8	10	1.00000	ug/L	137371		12/16/04 1717	jdh
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137371		12/16/04 1717	jdh
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137371		12/16/04 1717	jdh
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137371		12/16/04 1717	jdh
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1717	jdh
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137371		12/16/04 1717	jdh

* In Description = Dry Wgt.

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Job Number: 232540 LABORATORY TEST RESULTS Date: 12/18/2004

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

Customer Sample ID: LL5sw-009-SW Laboratory Sample ID: 232540-9
 Date Sampled.....: 12/07/2004 Date Received.....: 12/08/2004
 Time Sampled.....: 09:20 Time Received.....: 09:30
 Sample Matrix.....: Water

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 1717	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137371		12/16/04 1717	jdj

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/22/2004

CUSTOMER: NCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-009-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 09:20
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-9
 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
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	137849		12/14/04 2031	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U		0.64	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/22/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVMAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL5w-009-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 09:20
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-9
 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
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	137849		12/14/04 2031	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	137849		12/14/04 2031	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137849		12/14/04 2031	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	137849		12/14/04 2031	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	137849		12/14/04 2031	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232540		LABORATORY TEST RESULTS						Date:12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-009-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 09:20 Sample Matrix.....: Water			Laboratory Sample ID: 232540-9 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
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	137849		12/14/04 2031	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	10	J		3.9	15	1.00000	ug/L	137849		12/14/04 2031	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	137849		12/14/04 2031	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	137849		12/14/04 2031	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	137849		12/14/04 2031	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	137849		12/14/04 2031	dpk

* In Description = Dry Wgt.

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Job Number: 232540 LABORATORY TEST RESULTS Date: 12/21/2004

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

Customer Sample ID: LL5sw-009-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 09:20
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-9
 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
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	137759		12/16/04 1209	bdw
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	137759		12/16/04 1209	bdw
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	137759		12/16/04 1209	bdw
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	137759		12/16/04 1209	bdw
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	137759		12/16/04 1209	bdw
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	137759		12/16/04 1209	bdw
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	137759		12/16/04 1209	bdw
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	137759		12/16/04 1209	bdw
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137759		12/16/04 1209	bdw
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	137759		12/16/04 1209	bdw
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	137759		12/16/04 1209	bdw
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	137759		12/16/04 1209	bdw
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137759		12/16/04 1209	bdw
3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137759		12/16/04 1209	bdw	

* In Description = Dry Wgt.

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Job Number: 232540		LABORATORY TEST RESULTS						Date: 01/03/2005				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL5sw-010-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 10:00 Sample Matrix.....: Water			Laboratory Sample ID: 232540-8 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
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	137013		12/13/04 1413	daj
7060A	Arsenic (GFAA) Arsenic	1.2		B	0.51	2.0	1	ug/L	136999		12/13/04 1958	daj
7421	Lead (GFAA) Lead	3.4			0.79	3.0	1	ug/L	137235		12/16/04 0551	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	137028		12/13/04 1637	daj
7470A	Mercury (CVAA) Mercury	0.064		B	0.063	0.20	1	ug/L	137472		12/17/04 1403	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	1900			24	150	1	ug/L	137992		12/22/04 1436	lmr
	Barium	34			1.3	10	1	ug/L	137992		12/22/04 1436	lmr
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137992		12/22/04 1436	lmr
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137992		12/22/04 1436	lmr
	Calcium	38000			9.5	100	1	ug/L	137992		12/22/04 1436	lmr
	Chromium	2.9		B	1.1	10	1	ug/L	137992		12/22/04 1436	lmr
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137992		12/22/04 1436	lmr
	Copper	3.2		B	2.2	10	1	ug/L	137992		12/22/04 1436	lmr
	Iron	2700			38	120	1	ug/L	138123		12/28/04 0319	lmr
	Magnesium	5500			8.1	100	1	ug/L	137992		12/22/04 1436	lmr
	Manganese	75			0.41	10	1	ug/L	137992		12/22/04 1436	lmr
	Nickel	1.6		B	1.0	10	1	ug/L	137992		12/22/04 1436	lmr
	Potassium	1800			66	500	1	ug/L	137992		12/22/04 1436	lmr

* In Description = Dry Wgt.

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Job Number: 232540		LABORATORY TEST RESULTS					Date: 01/03/2005					
CUSTOMER: MKH Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL5sw-010-SW			Laboratory Sample ID: 232540-8									
Date Sampled: 12/07/2004			Date Received: 12/08/2004									
Time Sampled: 10:00			Time Received: 09:30									
Sample Matrix: Water												
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 1436	lmr
	Silver	10	U		0.72	10	1	ug/L	137992		12/22/04 1436	lmr
	Sodium	1300	B		490	1500	1	ug/L	137992		12/22/04 1436	lmr
	Vanadium	3.0	B		1.0	10	1	ug/L	137992		12/22/04 1436	lmr
	Zinc	14	B		1.6	30	1	ug/L	137992		12/22/04 1436	lmr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-010-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 10:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-8
 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
8081A	Organochlorine Pesticide Analysis										
	alpha-BHC	0.14	U	0.044	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	beta-BHC	0.093	U	0.026	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	delta-BHC	0.093	U	0.023	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	gamma-BHC (Lindane)	0.14	U	0.039	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	Heptachlor	0.14	U	0.038	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	Aldrin	0.093	U	0.026	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Heptachlor epoxide	0.14	U	0.034	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endosulfan I	0.093	U	0.020	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Dieldrin	0.093	U	0.017	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	4,4'-DDE	0.093	U	0.021	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endrin	0.093	U	0.016	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endosulfan II	0.14	U	0.039	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	4,4'-DDD	0.10	U	0.034	0.10	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endosulfan sulfate	0.14	U	0.041	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	4,4'-DDT	0.14	U	0.046	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	Methoxychlor	0.56	U	0.16	0.56	1.00000	ug/L	137782		12/17/04 2117	kdl
	alpha-Chlordane	0.047	U	0.015	0.047	1.00000	ug/L	137782		12/17/04 2117	kdl
	gamma-Chlordane	0.093	U	0.016	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endrin aldehyde	0.14	U	0.033	0.14	1.00000	ug/L	137782		12/17/04 2117	kdl
	Endrin ketone	0.093	U	0.027	0.093	1.00000	ug/L	137782		12/17/04 2117	kdl
	Toxaphene	0.47	U	0.13	0.47	1.00000	ug/L	137782		12/17/04 2117	kdl

* In Description = Dry Wgt.

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Job Number: 232540		LABORATORY TEST RESULTS						Date: 12/21/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAMP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-010-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 10:00 Sample Matrix.....: Water			Laboratory Sample ID: 232540-8 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
8082	PCB Analysis											
	Aroclor 1016	0.56	U		0.17	0.56	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1221	1.2	U		0.39	1.2	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1242	1.2	U		0.40	1.2	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1248	1.4	U		0.45	1.4	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	137736		12/15/04 2013	bjt
	Aroclor 1260	0.56	U		0.16	0.56	1.00000	ug/L	137736		12/15/04 2013	bjt

* 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 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-010-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 10:00
 Sample Matrix.....: Water

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOI	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 1653	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	137371		12/16/04 1653	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137371		12/16/04 1653	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137371		12/16/04 1653	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137371		12/16/04 1653	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137371		12/16/04 1653	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137371		12/16/04 1653	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/22/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOPS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-010-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 10:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-8
 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
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.7	U		0.33	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.28	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	1,3-Dichlorobenzene, Low Level Water	0.44	J		0.41	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.31	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137856		12/15/04 2309	dpc
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.26	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	n-Nitroso-di-n-propylamine, Low Level Water	0.47	U		0.076	0.47	1.00000	ug/L	137856		12/15/04 2309	dpc
	Hexachloroethane, Low Level Water	4.7	U		0.58	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.094	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	2-Chlorophenol, Low Level Water	4.7	U		0.11	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	Nitrobenzene, Low Level Water	0.94	U		0.15	0.94	1.00000	ug/L	137856		12/15/04 2309	dpc
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	Benzoic acid, Low Level Water	19	U	*	2.8	19	1.00000	ug/L	137856		12/15/04 2309	dpc
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc
	2,4-Dimethylphenol, Low Level Water	9.4	U		1.2	9.4	1.00000	ug/L	137856		12/15/04 2309	dpc
	Hexachlorobutadiene, Low Level Water	4.7	U		0.60	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	Naphthalene, Low Level Water	0.94	U		0.15	0.94	1.00000	ug/L	137856		12/15/04 2309	dpc
	2,4-Dichlorophenol, Low Level Water	9.4	U		0.86	9.4	1.00000	ug/L	137856		12/15/04 2309	dpc
	4-Chloroaniline, Low Level Water	9.4	U		2.6	9.4	1.00000	ug/L	137856		12/15/04 2309	dpc
	2,4,6-Trichlorophenol, Low Level Water	4.7	U		0.20	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	2,4,5-Trichlorophenol, Low Level Water	9.4	U		1.3	9.4	1.00000	ug/L	137856		12/15/04 2309	dpc
	Hexachlorocyclopentadiene, Low Level Water	19	U		0.61	19	1.00000	ug/L	137856		12/15/04 2309	dpc
	2-Methylnaphthalene, Low Level Water	0.47	U		0.12	0.47	1.00000	ug/L	137856		12/15/04 2309	dpc
	2-Nitroaniline, Low Level Water	4.7	U		0.21	4.7	1.00000	ug/L	137856		12/15/04 2309	dpc
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137856		12/15/04 2309	dpc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/22/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP T4 AGCS

ATTN: Eric Elkins

Customer Sample ID: LL5sw-010-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 10:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-8
 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
	4-Chloro-3-methylphenol, Low Level Water	9.4	U		2.3	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	2,6-Dinitrotoluene, Low Level Water	0.47	U		0.10	0.47	1.00000	ug/L	137856		12/15/04 2309	dpk
	2-Nitrophenol, Low Level Water	9.4	U		0.77	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	3-Nitroaniline, Low Level Water	9.4	U		2.0	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	137856		12/15/04 2309	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.1	19	1.00000	ug/L	137856		12/15/04 2309	dpk
	Acenaphthylene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	2,4-Dinitrotoluene, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Acenaphthene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	137856		12/15/04 2309	dpk
	4-Nitrophenol, Low Level Water	19	U		3.5	19	1.00000	ug/L	137856		12/15/04 2309	dpk
	Fluorene, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	4-Nitroaniline, Low Level Water	9.4	U		2.2	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.7	U		0.18	4.7	1.00000	ug/L	137856		12/15/04 2309	dpk
	Hexachlorobenzene, Low Level Water	0.47	U		0.092	0.47	1.00000	ug/L	137856		12/15/04 2309	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	137856		12/15/04 2309	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.7	U		0.71	4.7	1.00000	ug/L	137856		12/15/04 2309	dpk
	Pentachlorophenol, Low Level Water	9.4	U		1.6	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	137856		12/15/04 2309	dpk
	Phenanthrene, Low Level Water	0.94	U		0.13	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Anthracene, Low Level Water	0.94	U		0.14	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Carbazole, Low Level Water	4.7	U		0.27	4.7	1.00000	ug/L	137856		12/15/04 2309	dpk
	Di-n-butyl phthalate, Low Level Water	4.7	U		0.34	4.7	1.00000	ug/L	137856		12/15/04 2309	dpk
	Fluoranthene, Low Level Water	0.94	U		0.13	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Pyrene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	137856		12/15/04 2309	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.046	0.19	1.00000	ug/L	137856		12/15/04 2309	dpk
	Chrysene, Low Level Water	0.47	U		0.042	0.47	1.00000	ug/L	137856		12/15/04 2309	dpk

* In Description = Dry Wgt.

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Job Number: 232540		LABORATORY TEST RESULTS						Date: 12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVARP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-010-SW			Laboratory Sample ID: 232540-8									
Date Sampled: 12/07/2004			Date Received: 12/08/2004									
Time Sampled: 10:00			Time Received: 09:30									
Sample Matrix: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.7	U		0.68	4.7	1.00000	ug/L	137856		12/15/04 2309	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	137856		12/15/04 2309	dpk
	Di-n-octyl phthalate, Low Level Water	9.4	U		2.4	9.4	1.00000	ug/L	137856		12/15/04 2309	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.063	0.38	1.00000	ug/L	137856		12/15/04 2309	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.068	0.38	1.00000	ug/L	137856		12/15/04 2309	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.079	0.38	1.00000	ug/L	137856		12/15/04 2309	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	137856		12/15/04 2309	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	137856		12/15/04 2309	dpk
	Benzo(ghi)perylene, Low Level Water	0.94	U		0.18	0.94	1.00000	ug/L	137856		12/15/04 2309	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232540

Date: 12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-010-SW
 Date Sampled.....: 12/07/2004
 Time Sampled.....: 10:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232540-8
 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
8330	Explosives by 8330 (HPLC)											
	HMX	0.43	U		0.095	0.43	1.00000	ug/L	137759		12/16/04 1104	bdw
	RDX	0.28	U		0.090	0.28	1.00000	ug/L	137759		12/16/04 1104	bdw
	1,3,5-Trinitrobenzene	0.28	U		0.081	0.28	1.00000	ug/L	137759		12/16/04 1104	bdw
	1,3-Dinitrobenzene	0.28	U		0.077	0.28	1.00000	ug/L	137759		12/16/04 1104	bdw
	Nitrobenzene	0.22	U		0.062	0.22	1.00000	ug/L	137759		12/16/04 1104	bdw
	2,4,6-TNT	0.35	U		0.11	0.35	1.00000	ug/L	137759		12/16/04 1104	bdw
	Tetryl	1.1	U		0.23	1.1	1.00000	ug/L	137759		12/16/04 1104	bdw
	2,4-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	137759		12/16/04 1104	bdw
	2,6-Dinitrotoluene	0.60	U		0.20	0.60	1.00000	ug/L	137759		12/16/04 1104	bdw
	2-Amino-4,6-Dinitrotoluene	0.50	U		0.17	0.50	1.00000	ug/L	137759		12/16/04 1104	bdw
	4-Amino-2,6-Dinitrotoluene	0.46	U		0.16	0.46	1.00000	ug/L	137759		12/16/04 1104	bdw
	2-Nitrotoluene	0.43	U		0.13	0.43	1.00000	ug/L	137759		12/16/04 1104	bdw
	4-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137759		12/16/04 1104	bdw
	3-Nitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137759		12/16/04 1104	bdw

* In Description = Dry Wgt.

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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)	0.27			0.057	0.20	1	mg/L	135585		11/29/04 1147	kd

* 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 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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		11/22/04 1405	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	135115		11/21/04 1422	daj
7421	Lead (GFAA) Lead	0.89		B	0.79	3.0	1	ug/L	135155		11/22/04 1236	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	135201		11/23/04 0052	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	135835		11/30/04 1519	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150		U	24	150	1	ug/L	135885		12/01/04 1850	tds
	Barium	25		U	1.3	10	1	ug/L	135885		12/01/04 1850	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	135885		12/01/04 1850	tds
	Cadmium	0.28		B	0.25	2.0	1	ug/L	135885		12/01/04 1850	tds
	Calcium	42000		U	9.5	100	1	ug/L	135885		12/01/04 1850	tds
	Chromium	10		U	1.1	10	1	ug/L	135885		12/01/04 1850	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	135885		12/01/04 1850	tds
	Copper	2.2		B	2.2	10	1	ug/L	135885		12/01/04 1850	tds
	Iron	46		B	38	120	1	ug/L	135885		12/01/04 1850	tds
	Magnesium	6500		U	8.1	100	1	ug/L	135885		12/01/04 1850	tds
	Manganese	3.6		B	0.41	10	1	ug/L	135885		12/01/04 1850	tds
	Nickel	10		U	1.0	10	1	ug/L	135885		12/01/04 1850	tds
	Potassium	28000		U	66	500	1	ug/L	135885		12/01/04 1850	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 RYAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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 1850	tds
	Silver	10	U	0.72	10	1	ug/L	135885		12/01/04 1850	tds
	Sodium	4200		490	1500	1	ug/L	135885		12/01/04 1850	tds
	Vanadium	10	U	1.0	10	1	ug/L	135885		12/01/04 1850	tds
	Zinc	81		1.6	30	1	ug/L	135885		12/01/04 1850	tds

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/08/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-1 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		0.046	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	136520		11/28/04 1933	kdL
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136520		11/28/04 1933	kdL
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136520		11/28/04 1933	kdL
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	136520		11/28/04 1933	kdL
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136520		11/28/04 1933	kdL

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/08/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-1 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	0.59		U	0.18	0.59	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1016	1.3		U	0.41	1.3	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1221	1.3		U	0.34	1.3	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1232	1.3		U	0.42	1.3	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1242	1.5		U	0.47	1.5	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1248	1.3		U	0.34	1.3	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1254	0.59		U	0.17	0.59	1.00000	ug/L	136116		11/24/04 1554	bjt
	Aroclor 1260											

* 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 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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	135563		11/24/04 0401	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0401	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0401	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0401	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0401	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0401	jdj

* 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 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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 0401	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0401	jdj

* 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 Elite

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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	Semivolatiles Organics											
	Phenol, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	136454		12/01/04 2035	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.096	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk

* 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 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 Date Received.....: 11/19/2004
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	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	136454		12/01/04 2035	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	136454		12/01/04 2035	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	136454		12/01/04 2035	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	136454		12/01/04 2035	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	136454		12/01/04 2035	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	136454		12/01/04 2035	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	136454		12/01/04 2035	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 RWAAP 14 AGCS

ATTN: ERIC ELLIS

Customer Sample ID: LL5sw-011-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-1
 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 2035	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	136454		12/01/04 2035	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U	*	2.4	9.6	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	136454		12/01/04 2035	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.083	0.38	1.00000	ug/L	136454		12/01/04 2035	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	136454		12/01/04 2035	dpk
	Benzo(ghi)perylene, Low Level Water	0.96	U		0.18	0.96	1.00000	ug/L	136454		12/01/04 2035	dpk

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: HMM Engineers, Inc.			PROJECT: USACE RYAMP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-1 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	0.31	U		0.068	0.31	1.00000	ug/L	136329		11/23/04 0306	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	136329		11/23/04 0306	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	136329		11/23/04 0306	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	136329		11/23/04 0306	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	136329		11/23/04 0306	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	136329		11/23/04 0306	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	136329		11/23/04 0306	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136329		11/23/04 0306	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	136329		11/23/04 0306	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136329		11/23/04 0306	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	136329		11/23/04 0306	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	136329		11/23/04 0306	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136329		11/23/04 0306	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136329		11/23/04 0306	san

* In Description = Dry Wgt.

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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-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 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)	0.28			0.057	0.20	1	mg/L	135585		11/29/04 1148	kd

* 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 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-DUP Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-3 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		11/22/04 2351	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	135115		11/21/04 1446	daj
7421	Lead (GFAA) Lead	0.98	B		0.79	3.0	1	ug/L	135155		11/22/04 1302	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	135201		11/23/04 0117	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	135835		11/30/04 1523	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	135885		12/01/04 1903	tds
	Barium	25			1.3	10	1	ug/L	135885		12/01/04 1903	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1903	tds
	Cadmium	0.31	B		0.25	2.0	1	ug/L	135885		12/01/04 1903	tds
	Calcium	41000			9.5	100	1	ug/L	135885		12/01/04 1903	tds
	Chromium	10	U		1.1	10	1	ug/L	135885		12/01/04 1903	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	135885		12/01/04 1903	tds
	Copper	2.7	B		2.2	10	1	ug/L	135885		12/01/04 1903	tds
	Iron	46	B		38	120	1	ug/L	135885		12/01/04 1903	tds
	Magnesium	6400			8.1	100	1	ug/L	135885		12/01/04 1903	tds
	Manganese	3.4	B		0.41	10	1	ug/L	135885		12/01/04 1903	tds
	Nickel	10	U		1.0	10	1	ug/L	135885		12/01/04 1903	tds
	Potassium	27000			66	500	1	ug/L	135885		12/01/04 1903	tds

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/06/2004				
CUSTOMER: MGN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-DUP Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-3 Date Received.....: 11/19/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH
	Selenium	15		U	3.0	15	1	ug/L	135885		12/01/04 1903	tds
	Silver	10		U	0.72	10	1	ug/L	135885		12/01/04 1903	tds
	Sodium	4100			490	1500	1	ug/L	135885		12/01/04 1903	tds
	Vanadium	10		U	1.0	10	1	ug/L	135885		12/01/04 1903	tds
	Zinc	79			1.6	30	1	ug/L	135885		12/01/04 1903	tds

* 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 1A AOCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 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	0.14	U		0.044	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	beta-BHC	0.094	U		0.026	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	delta-BHC	0.094	U		0.024	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	Aldrin	0.094	U		0.026	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endosulfan I	0.094	U		0.020	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Dieldrin	0.094	U		0.017	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	4,4'-DDE	0.094	U		0.022	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endrin	0.094	U		0.016	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	4,4'-DDT	0.14	U		0.046	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	Methoxychlor	0.57	U		0.16	0.57	1.00000	ug/L	136520		11/28/04 2023	kdl
	alpha-Chlordane	0.047	U		0.015	0.047	1.00000	ug/L	136520		11/28/04 2023	kdl
	gamma-Chlordane	0.094	U		0.016	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	136520		11/28/04 2023	kdl
	Endrin ketone	0.094	U		0.027	0.094	1.00000	ug/L	136520		11/28/04 2023	kdl
	Toxaphene	0.47	U		0.13	0.47	1.00000	ug/L	136520		11/28/04 2023	kdl

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/08/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 ADGS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-DUP Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-3 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	0.57	U		0.17	0.57	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1248	1.4	U		0.45	1.4	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	136116		11/24/04 1705	bjt
	Aroclor 1260	0.57	U		0.16	0.57	1.00000	ug/L	136116		11/24/04 1705	bjt

* In Description = Dry Wgt.

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STL Chicago

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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-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 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 0446	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0446	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0446	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0446	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0446	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0446	jdj

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: WKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-011-DUP Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-3 Date Received.....: 11/19/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAG	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 0446	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	1,2-Dichloroethane (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0446	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 Date Received.....: 11/19/2004
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI 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 2123	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U	0.29	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U	0.42	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U	0.32	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U	0.34	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzyl alcohol, Low Level Water	20	U	2.2	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	0.27	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U	0.079	0.49	1.00000	ug/L	136454		12/01/04 2123	dpk
	Hexachloroethane, Low Level Water	4.9	U	0.60	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U	0.098	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Chlorophenol, Low Level Water	4.9	U	0.12	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Nitrobenzene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U	0.30	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U	0.33	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzoic acid, Low Level Water	20	U	2.9	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	Isophorone, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U	1.3	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U	0.63	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Naphthalene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U	0.89	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Chloroaniline, Low Level Water	9.8	U	2.7	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U	0.21	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U	1.4	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	0.64	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U	0.13	0.49	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Nitroaniline, Low Level Water	4.9	U	0.22	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk

* 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 T4 ADCS

ATTN: Eric Ellis

Customer Sample ID: L15sw-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 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	9.8	U		2.4	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	136454		12/01/04 2123	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	136454		12/01/04 2123	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	136454		12/01/04 2123	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	136454		12/01/04 2123	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	136454		12/01/04 2123	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 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-011-DUP
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:40
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-3
 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	4.9	U		0.71	4.9	1.00000	ug/L	136454		12/01/04 2123	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	5.3	J		3.8	15	1.00000	ug/L	136454		12/01/04 2123	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U	*	2.5	9.8	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	136454		12/01/04 2123	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	136454		12/01/04 2123	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	136454		12/01/04 2123	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	136454		12/01/04 2123	dpk

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/07/2004					
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis						
Customer Sample ID: LL5sw-011-DUP Date Sampled.....: 11/18/2004 Time Sampled.....: 09:40 Sample Matrix.....: Water			Laboratory Sample ID: 232119-3 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	1.1	U		0.23	1.1	1.00000	ug/L	136329		11/23/04 0411	san	
	RDX	0.69	U		0.22	0.69	1.00000	ug/L	136329		11/23/04 0411	san	
	1,3,5-Trinitrobenzene	0.69	U		0.20	0.69	1.00000	ug/L	136329		11/23/04 0411	san	
	1,3-Dinitrobenzene	0.69	U		0.19	0.69	1.00000	ug/L	136329		11/23/04 0411	san	
	Nitrobenzene	0.55	U		0.15	0.55	1.00000	ug/L	136329		11/23/04 0411	san	
	2,4,6-TNT	0.86	U		0.27	0.86	1.00000	ug/L	136329		11/23/04 0411	san	
	Tetryl	2.7	U		0.56	2.7	1.00000	ug/L	136329		11/23/04 0411	san	
	2,4-Dinitrotoluene	1.2	U		0.42	1.2	1.00000	ug/L	136329		11/23/04 0411	san	
	2,6-Dinitrotoluene	1.5	U		0.49	1.5	1.00000	ug/L	136329		11/23/04 0411	san	
	2-Amino-4,6-Dinitrotoluene	1.2	U		0.41	1.2	1.00000	ug/L	136329		11/23/04 0411	san	
	4-Amino-2,6-Dinitrotoluene	1.1	U		0.39	1.1	1.00000	ug/L	136329		11/23/04 0411	san	
	2-Nitrotoluene	1.1	U		0.32	1.1	1.00000	ug/L	136329		11/23/04 0411	san	
	4-Nitrotoluene	1.1	U		0.34	1.1	1.00000	ug/L	136329		11/23/04 0411	san	
	3-Nitrotoluene	1.1	U		0.35	1.1	1.00000	ug/L	136329		11/23/04 0411	san	

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/09/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAMP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-012-SW			Laboratory Sample ID: 232119-2									
Date Sampled.....: 11/18/2004			Date Received.....: 11/19/2004									
Time Sampled.....: 09:10			Time Received.....: 09:15									
Sample Matrix.....: Water												
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)	0.085	B		0.057	0.20	1	mg/L	135585		11/29/04 114B	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-012-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-2
 Date Received.....: 11/19/2004
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	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 2341	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	135115		11/21/04 1434	daj
7421	Lead (GFAA) Lead	3.0	U		0.79	3.0	1	ug/L	135155		11/22/04 1249	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	135201		11/23/04 0105	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	135835		11/30/04 1521	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	150	U		24	150	1	ug/L	135885		12/01/04 1856	tds
	Barium	13	U		1.3	10	1	ug/L	135885		12/01/04 1856	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1856	tds
	Cadmium	0.33	B		0.25	2.0	1	ug/L	135885		12/01/04 1856	tds
	Calcium	22000	U		9.5	100	1	ug/L	135885		12/01/04 1856	tds
	Chromium	10	U		1.1	10	1	ug/L	135885		12/01/04 1856	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	135885		12/01/04 1856	tds
	Copper	2.2	B		2.2	10	1	ug/L	135885		12/01/04 1856	tds
	Iron	120	U		38	120	1	ug/L	135885		12/01/04 1856	tds
	Magnesium	5400	U		8.1	100	1	ug/L	135885		12/01/04 1856	tds
	Manganese	5.5	B		0.41	10	1	ug/L	135885		12/01/04 1856	tds
	Nickel	10	U		1.0	10	1	ug/L	135885		12/01/04 1856	tds
	Potassium	16000	U		66	500	1	ug/L	135885		12/01/04 1856	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 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-012-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:10 Sample Matrix.....: Water			Laboratory Sample ID: 232119-2 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 1856	tds
	Silver	10	U		0.72	10	1	ug/L	135885		12/01/04 1856	tds
	Sodium	3600			490	1500	1	ug/L	135885		12/01/04 1856	tds
	Vanadium	10	U		1.0	10	1	ug/L	135885		12/01/04 1856	tds
	Zinc	24	B		1.6	30	1	ug/L	135885		12/01/04 1856	tds

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/08/2004				
CUSTOMER: HGN Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LL5sw-012-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:10 Sample Matrix.....: Water				Laboratory Sample ID: 232119-2 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
80B1A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	136520		11/28/04 1958	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136520		11/28/04 1958	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136520		11/28/04 1958	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	136520		11/28/04 1958	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136520		11/28/04 1958	kdl

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date: 12/08/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ACTN: EPC ELTs					
Customer Sample ID: LL5sw-012-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:10 Sample Matrix.....: Water			Laboratory Sample ID: 232119-2 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	0.58	U		0.17	0.58	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1016	1.3	U		0.41	1.3	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1221	1.3	U		0.34	1.3	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1232	1.3	U		0.42	1.3	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1242	1.5	U		0.47	1.5	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1248	1.3	U		0.34	1.3	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1254	0.58	U		0.17	0.58	1.00000	ug/L	136116		11/24/04 1630	bjt
	Aroclor 1260											

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232119

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL5sw-012-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-2
 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	135563		11/24/04 0423	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0423	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0423	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0423	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0423	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0423	jdj

* 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 AGCS
ATTN: Eric Ellis

Customer Sample ID: LL5sw-012-SW Laboratory Sample ID: 232119-2
 Date Sampled.....: 11/18/2004 Date Received.....: 11/19/2004
 Time Sampled.....: 09:10 Time Received.....: 09:15
 Sample Matrix.....: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0423	jdj

* 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 T4 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-012-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-2
 Date Received.....: 11/19/2004
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	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	136454		12/01/04 2059	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	136454		12/01/04 2059	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2059	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: LL5w-012-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-2
 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	TRCH
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	136454		12/01/04 2059	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	136454		12/01/04 2059	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	136454		12/01/04 2059	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	136454		12/01/04 2059	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	136454		12/01/04 2059	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 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL5sw-012-SW
 Date Sampled.....: 11/18/2004
 Time Sampled.....: 09:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232119-2
 Date Received.....: 11/19/2004
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	136454		12/01/04 2059	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	136454		12/01/04 2059	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U	*	2.5	9.9	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	136454		12/01/04 2059	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	136454		12/01/04 2059	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	136454		12/01/04 2059	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	136454		12/01/04 2059	dpk

* In Description = Dry Wgt.

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Job Number: 232119		LABORATORY TEST RESULTS						Date:12/07/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL5sw-012-SW Date Sampled.....: 11/18/2004 Time Sampled.....: 09:10 Sample Matrix.....: Water			Laboratory Sample ID: 232119-2 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	0.61	U		0.13	0.61	1.00000	ug/L	136329		11/23/04 0339	san
	RDX	0.40	U		0.13	0.40	1.00000	ug/L	136329		11/23/04 0339	san
	1,3,5-Trinitrobenzene	0.40	U		0.12	0.40	1.00000	ug/L	136329		11/23/04 0339	san
	1,3-Dinitrobenzene	0.40	U		0.11	0.40	1.00000	ug/L	136329		11/23/04 0339	san
	Nitrobenzene	0.32	U		0.087	0.32	1.00000	ug/L	136329		11/23/04 0339	san
	2,4,6-TNT	0.50	U		0.15	0.50	1.00000	ug/L	136329		11/23/04 0339	san
	Tetryl	1.5	U		0.33	1.5	1.00000	ug/L	136329		11/23/04 0339	san
	2,4-Dinitrotoluene	0.71	U		0.24	0.71	1.00000	ug/L	136329		11/23/04 0339	san
	2,6-Dinitrotoluene	0.85	U		0.28	0.85	1.00000	ug/L	136329		11/23/04 0339	san
	2-Amino-4,6-Dinitrotoluene	0.71	U		0.24	0.71	1.00000	ug/L	136329		11/23/04 0339	san
	4-Amino-2,6-Dinitrotoluene	0.65	U		0.22	0.65	1.00000	ug/L	136329		11/23/04 0339	san
	2-Nitrotoluene	0.61	U		0.18	0.61	1.00000	ug/L	136329		11/23/04 0339	san
	4-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	136329		11/23/04 0339	san
	3-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	136329		11/23/04 0339	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	2.0	U		0.30	2.0	1.00000	ug/L	136342		11/20/04 1243	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL5sw-012-SW

Trace Level Organic Compounds

Lot-Sample #...: G4K190351-001 Work Order #...: GXF151AC Matrix.....: WATER
Date Sampled...: 11/18/04 09:10 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

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

STL CHICAGO

Client Sample ID: LL5sw-012-SW

General Chemistry

Lot-Sample #...: G4K190351-001 Work Order #...: GFX15 Matrix.....: WATER
Date Sampled...: 11/18/04 09:10 Date Received...: 11/19/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
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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Job Number: 232200 LABORATORY TEST RESULTS Date: 12/17/2004

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

Customer Sample ID: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 Date Received.....: 11/23/2004
 Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.59			0.057	0.20	1	mg/L	135585		11/29/04 1150	kd

* 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: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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
7041	Antimony (GFAA) Antimony	7.5	U		2.5	7.5	1	ug/L	135886		12/01/04 1752	daj
7060A	Arsenic (GFAA) Arsenic	0.74	B		0.51	2.0	1	ug/L	136355		12/06/04 1143	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	135793		11/30/04 1409	daj
7470A	Mercury (CVAA) Mercury	0.32			0.063	0.20	1	ug/L	135835		11/30/04 1600	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	2200			24	150	1	ug/L	136189		12/04/04 0013	tds
	Barium	140			1.3	10	1	ug/L	136189		12/04/04 0013	tds
	Beryllium	0.55	B		0.25	2.0	1	ug/L	136189		12/04/04 0013	tds
	Cadmium	1.3	B		0.25	2.0	1	ug/L	136189		12/04/04 0013	tds
	Calcium	48000			9.5	100	1	ug/L	136189		12/04/04 0013	tds
	Chromium	3.0	B		1.1	10	1	ug/L	136189		12/04/04 0013	tds
	Cobalt	1.2	B		0.80	5.0	1	ug/L	136189		12/04/04 0013	tds
	Copper	40			2.2	10	1	ug/L	136189		12/04/04 0013	tds
	Iron	4400			38	120	1	ug/L	136189		12/04/04 0013	tds
	Magnesium	8900			8.1	100	1	ug/L	136189		12/04/04 0013	tds
	Manganese	1400			0.41	10	1	ug/L	136189		12/04/04 0013	tds
	Nickel	30			1.0	10	1	ug/L	136189		12/04/04 0013	tds
	Lead	2200			2.5	9.0	1	ug/L	136189		12/04/04 0013	tds
	Potassium	1700			66	500	1	ug/L	136189		12/04/04 0013	tds
	Selenium	15	U		3.0	15	1	ug/L	136189		12/04/04 0013	tds
	Silver	10	U		0.72	10	1	ug/L	136189		12/04/04 0013	tds

* In Description = Dry Wgt.

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Job Number: 232200		LABORATORY TEST RESULTS						Date: 12/09/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAMP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-001-SW			Laboratory Sample ID: 232200-15									
Date Sampled.....: 11/22/2004			Date Received.....: 11/23/2004									
Time Sampled.....: 13:50			Time Received.....: 09:40									
Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Sodium	4000			490	1500	1	ug/L	136189		12/04/04 0013	tds
	Vanadium	7.9	B		1.0	10	1	ug/L	136189		12/04/04 0013	tds
	Zinc	110			1.6	30	1	ug/L	136189		12/04/04 0013	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 232200		LABORATORY TEST RESULTS							Date: 12/15/2004			
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOES				ATTN: Eric Ellis				
Customer Sample ID: LL7sw-001-SW Date Sampled.....: 11/22/2004 Time Sampled.....: 13:50 Sample Matrix.....: Water				Laboratory Sample ID: 232200-15 Date Received.....: 11/23/2004 Time Received.....: 09:40								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAG	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	136645		11/30/04 1928	kdL
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	136645		11/30/04 1928	kdL
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136645		11/30/04 1928	kdL
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136645		11/30/04 1928	kdL
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	136645		11/30/04 1928	kdL
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136645		11/30/04 1928	kdL

* In Description = Dry Wgt.

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Job Number: 232200		LABORATORY TEST RESULTS						Date: 12/09/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-001-SW Date Sampled.....: 11/22/2004 Time Sampled.....: 13:50 Sample Matrix.....: Water			Laboratory Sample ID: 232200-15 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
8082	PCB Analysis											
	Aroclor 1016	0.59		U	0.18	0.59	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	136610		11/30/04 1443	bjt
	Aroclor 1260	0.59		U	0.17	0.59	1.00000	ug/L	136610		11/30/04 1443	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/09/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7SW-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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 0436	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Bromomethane	1.0	U	*	0.10	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Chloroethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	135800		12/01/04 0436	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135800		12/01/04 0436	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135800		12/01/04 0436	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135800		12/01/04 0436	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135800		12/01/04 0436	jdj

* 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 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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 0436	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	1,2-Dichloroethane (total)	1.0	U		0.23	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135800		12/01/04 0436	jdj

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7SW-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	1,4-Dichlorobenzene, Low Level Water	0.52	J		0.33	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	136454		12/01/04 2346	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	136454		12/01/04 2346	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	136454		12/01/04 2346	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	136454		12/01/04 2346	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	136454		12/01/04 2346	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	136454		12/01/04 2346	dpk

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/08/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	136454		12/01/04 2346	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	136454		12/01/04 2346	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U	*	2.5	9.9	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	136454		12/01/04 2346	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	136454		12/01/04 2346	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	136454		12/01/04 2346	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	136454		12/01/04 2346	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-001-SW
 Date Sampled.....: 11/22/2004
 Time Sampled.....: 13:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232200-15
 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
8330	Explosives by 8330 (HPLC)											
	HMX	4.9			0.068	0.31	1.0000	ug/L	136497		11/25/04 0401	bdw
	RDX	12			0.64	2.0	10.0000	ug/L	136497	D1	11/26/04 1603	bdw
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	136497		11/25/04 0401	bdw
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	136497		11/25/04 0401	bdw
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	136497		11/25/04 0401	bdw
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	136497		11/25/04 0401	bdw
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	136497		11/25/04 0401	bdw
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136497		11/25/04 0401	bdw
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	136497		11/25/04 0401	bdw
	2-Amino-4,6-Dinitrotoluene	0.36	J		0.12	0.36	1.00000	ug/L	136497		11/25/04 0401	bdw
	4-Amino-2,6-Dinitrotoluene	0.32	J		0.11	0.33	1.00000	ug/L	136497		11/25/04 0401	bdw
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	136497		11/25/04 0401	bdw
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136497		11/25/04 0401	bdw
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136497		11/25/04 0401	bdw
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	136523		12/02/04 1000	bdw	

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-001-SW

Trace Level Organic Compounds

Lot-Sample #...: G4K230379-006 Work Order #...: GXP6M1AC Matrix.....: WATER
Date Sampled...: 11/22/04 13:50 Date Received...: 11/23/04
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

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

STL CHICAGO

Client Sample ID: LL7sw-001-SW

General Chemistry

Lot-Sample #...: G4K230379-006
Date Sampled...: 11/22/04

Work Order #...: GXP6M
Date Received...: 11/23/04

Matrix.....: WATER

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

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Job Number: 232540		LABORATORY TEST RESULTS						Date: 01/03/2005				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 A063				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled.....: 12/07/2004 Time Sampled.....: 09:15 Sample Matrix.....: Water			Laboratory Sample ID: 232540-1 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.76			0.057	0.20	1	mg/L	137053		12/14/04 1409	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478 Date: 12/22/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USAGE RVAAP 14 ADCS ATTN: ERIC ELLIS

Customer Sample ID: LL7sw-002-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 11:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-3
 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
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	136643		12/08/04 1422	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136622		12/08/04 1612	daj
7421	Lead (GFAA) Lead	3.0		U	0.79	3.0	1	ug/L	136730		12/09/04 1547	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	136776		12/09/04 1229	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137125		12/14/04 1502	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	140		B	24	150	1	ug/L	137508		12/19/04 0450	tds
	Berium	27			1.3	10	1	ug/L	137508		12/19/04 0450	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0450	tds
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0450	tds
	Calcium	44000			9.5	100	1	ug/L	137508		12/19/04 0450	tds
	Chromium	10		U	1.1	10	1	ug/L	137508		12/19/04 0450	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137508		12/19/04 0450	tds
	Copper	10		U	2.2	10	1	ug/L	137508		12/19/04 0450	tds
	Iron	320			38	120	1	ug/L	137508		12/19/04 0450	tds
	Magnesium	8100			8.1	100	1	ug/L	137508		12/19/04 0450	tds
	Manganese	33			0.41	10	1	ug/L	137508		12/19/04 0450	tds
	Nickel	10		U	1.0	10	1	ug/L	137508		12/19/04 0450	tds
	Potassium	1600			66	500	1	ug/L	137508		12/19/04 0450	tds

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS					Date: 12/22/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Elise						
Customer Sample ID: L17sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 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
	Selenium	15		U	3.0	15	1	ug/L	137508		12/19/04 0450	tds
	Silver	10		U	0.72	10	1	ug/L	137508		12/19/04 0450	tds
	Sodium	3300			490	1500	1	ug/L	137508		12/19/04 0450	tds
	Vanadium	10		U	1.0	10	1	ug/L	137508		12/19/04 0450	tds
	Zinc	3.8		B	1.6	30	1	ug/L	137508		12/19/04 0450	tds

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/20/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RWAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 Date Received.....: 12/06/2004 Time Received.....: 09:20									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	beta-BHC	0.099	U		0.028	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	delta-BHC	0.099	U		0.025	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	Aldrin	0.099	U		0.028	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endosulfan I	0.099	U		0.021	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Dieldrin	0.099	U		0.018	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	4,4'-DDE	0.099	U		0.023	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endrin	0.099	U		0.017	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	137532		12/15/04 1201	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	137532		12/15/04 1201	kdl
	gamma-Chlordane	0.099	U		0.017	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	137532		12/15/04 1201	kdl
	Endrin ketone	0.099	U		0.029	0.099	1.00000	ug/L	137532		12/15/04 1201	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	137532		12/15/04 1201	kdl

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: NIOM Engineers, Inc.			PROJECT: USACE RVAAP 34 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled: 12/03/2004 Time Sampled: 11:00 Sample Matrix: Water			Laboratory Sample ID: 232478-3 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
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	137383		12/15/04 1801	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	137383		12/15/04 1801	bjt

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/18/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAMP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 Date Received.....: 12/06/2004 Time Received.....: 09:20									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	137286		12/15/04 2320	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/15/04 2320	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/15/04 2320	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/15/04 2320	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/15/04 2320	jdj

* 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: LL7sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 Date Received.....: 12/06/2004 Time Received.....: 09:20									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0		U	0.060	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,2-Dibromoethane (EDB)	1.0		U	0.13	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Chlorobenzene	1.0		U	0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Ethylbenzene	1.0		U	0.070	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	m&p-Xylenes	2.0		U	0.18	2.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	o-Xylene	1.0		U	0.080	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Styrene	1.0		U	0.13	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Bromoform	1.0		U	0.11	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,1,2,2-Tetrachloroethane	1.0		U	0.090	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	1,2-Dichloroethene (total)	1.0		U	0.23	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj
	Xylenes (total)	1.0		U	0.28	1.0	1.00000	ug/L	137286		12/15/04 2320	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-002-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 11:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-3
 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
8270C	Semivolatle Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	137499		12/13/04 0348	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RMAAP T4 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-002-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 11:00
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-3
 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
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	137499		12/13/04 0348	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	137499		12/13/04 0348	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137499		12/13/04 0348	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	137499		12/13/04 0348	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	137499		12/13/04 0348	dpk

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/20/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 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
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	137499		12/13/04 0348	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	137499		12/13/04 0348	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	137499		12/13/04 0348	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	137499		12/13/04 0348	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	137499		12/13/04 0348	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	137499		12/13/04 0348	dpk

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/21/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 XDCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-002-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 11:00 Sample Matrix.....: Water			Laboratory Sample ID: 232478-3 Date Received.....: 12/06/2004 Time Received.....: 09:20									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOI	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	8.2			0.082	0.37	1.00000	ug/L	137544		12/15/04 1324	bdw
	RDX	26			0.77	2.4	10.0000	ug/L	137544	DI	12/16/04 1635	bdw
	1,3,5-Trinitrobenzene	0.24	U		0.070	0.24	1.00000	ug/L	137544		12/15/04 1324	bdw
	1,3-Dinitrobenzene	0.24	U		0.066	0.24	1.00000	ug/L	137544		12/15/04 1324	bdw
	Nitrobenzene	0.19	U		0.053	0.19	1.00000	ug/L	137544		12/15/04 1324	bdw
	2,4,6-TNT	0.30	U		0.094	0.30	1.00000	ug/L	137544		12/15/04 1324	bdw
	Tetryl	0.94	U		0.20	0.94	1.00000	ug/L	137544		12/15/04 1324	bdw
	2,4-Dinitrotoluene	0.43	U		0.15	0.43	1.00000	ug/L	137544		12/15/04 1324	bdw
	2,6-Dinitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	137544		12/15/04 1324	bdw
	2-Amino-4,6-Dinitrotoluene	0.33	J	a	0.14	0.43	1.00000	ug/L	137544		12/15/04 1324	bdw
	4-Amino-2,6-Dinitrotoluene	0.36	J	a	0.14	0.40	1.00000	ug/L	137544		12/15/04 1324	bdw
	2-Nitrotoluene	0.37	U		0.11	0.37	1.00000	ug/L	137544		12/15/04 1324	bdw
	4-Nitrotoluene	0.37	U		0.12	0.37	1.00000	ug/L	137544		12/15/04 1324	bdw
3-Nitrotoluene	0.37	U		0.12	0.37	1.00000	ug/L	137544		12/15/04 1324	bdw	
8332M	NG/PETN by 8332M (HPLC) Nitroglycerine	1.2	U		0.18	1.2	1.00000	ug/L	137545		12/09/04 0421	bdw

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-002-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L060183-001 Work Order #...: G0DET1AC Matrix.....: WATER
Date Sampled...: 12/03/04 11:00 Date Received...: 12/06/04
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

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

STL CHICAGO

Client Sample ID: LL7sw-002-SW

General Chemistry

Lot-Sample #...: G4L060183-001
Date Sampled...: 12/03/04

Work Order #...: GODET
Date Received...: 12/06/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
		MDL.....: 0.12				

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Job Number: 232409		LABORATORY TEST RESULTS					Date: 12/29/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOC9			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-9 Date Received.....: 12/03/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.66			0.057	0.20	1	mg/L	137053		12/14/04 1224	kd

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-SW			Laboratory Sample ID: 232409-9									
Date Sampled.....: 12/02/2004			Date Received.....: 12/03/2004									
Time Sampled.....: 13:15			Time Received.....: 10:00									
Sample Matrix.....: Water												
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	136643		12/08/04 1244	daj
7060A	Arsenic (GFAA) Arsenic	0.61	B		0.51	2.0	1	ug/L	136355		12/07/04 0037	daj
7421	Lead (GFAA) Lead	8.0			0.79	3.0	1	ug/L	136730		12/09/04 1341	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	136346		12/07/04 0810	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	137125		12/14/04 1612	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	220			24	150	1	ug/L	137178		12/15/04 2356	tds
	Barium	33			1.3	10	1	ug/L	137178		12/15/04 2356	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2356	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2356	tds
	Calcium	25000			9.5	100	1	ug/L	137178		12/15/04 2356	tds
	Chromium	10	U		1.1	10	1	ug/L	137178		12/15/04 2356	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137178		12/15/04 2356	tds
	Copper	10	U		2.2	10	1	ug/L	137178		12/15/04 2356	tds
	Iron	300			38	120	1	ug/L	137178		12/15/04 2356	tds
	Magnesium	5200			8.1	100	1	ug/L	137178		12/15/04 2356	tds
	Manganese	21			0.41	10	1	ug/L	137178		12/15/04 2356	tds
	Nickel	1.1	B		1.0	10	1	ug/L	137178		12/15/04 2356	tds
	Potassium	1600			66	500	1	ug/L	137178		12/15/04 2356	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 RYAAP 14 ADCS				ATTN: Eric Ellits				
Customer Sample ID: LL7sw-003-SW						Laboratory Sample ID: 232409-9						
Date Sampled.....: 12/02/2004						Date Received.....: 12/03/2004						
Time Sampled.....: 13:15						Time Received.....: 10:00						
Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH
	Selenium	15		U	3.0	15	1	ug/L	137178		12/15/04 2356	tds
	Silver	10		U	0.72	10	1	ug/L	137178		12/15/04 2356	tds
	Sodium	1900			490	1500	1	ug/L	137178		12/15/04 2356	tds
	Vanadium	10		U	1.0	10	1	ug/L	137178		12/15/04 2356	tds
	Zinc	4.2		B	1.6	30	1	ug/L	137178		12/15/04 2356	tds

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RWAAP 14 ADSS				ATTN: Eric Ellis					
Customer Sample ID: LL7SW-003-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-9 Date Received.....: 12/03/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	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	137343		12/12/04 1614	kdl
	beta-BHC	0.099	U		0.028	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	delta-BHC	0.099	U		0.025	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	Aldrin	0.099	U		0.028	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endosulfan I	0.099	U		0.021	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Dieldrin	0.099	U		0.018	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	4,4'-DDE	0.099	U		0.023	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endrin	0.099	U		0.017	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	137343		12/12/04 1614	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	137343		12/12/04 1614	kdl
	gamma-Chlordane	0.099	U		0.017	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	137343		12/12/04 1614	kdl
	Endrin ketone	0.099	U		0.029	0.099	1.00000	ug/L	137343		12/12/04 1614	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	137343		12/12/04 1614	kdl

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Eltis					
Customer Sample ID: LL7sw-003-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-9 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	0.59	U		0.18	0.59	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	137249		12/08/04 0731	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	137249		12/08/04 0731	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 AGCS

ATTN: Eric Elise

Customer Sample ID: LL7sw-003-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-9
 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 1827	jdj
	Vinyl chloride	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Bromomethane	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Chloroethane	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,1-Dichloroethene	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Carbon disulfide	5.0	U	0.20	5.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Acetone	10	U	1.8	10	1.00000	ug/L	137206		12/15/04 1827	jdj
	Methylene chloride	1.5	U	0.35	1.5	1.00000	ug/L	137206		12/15/04 1827	jdj
	trans-1,2-Dichloroethene	1.0	U	0.14	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,1-Dichloroethane	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	cis-1,2-Dichloroethene	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	2-Butanone (MEK)	10	U	1.2	10	1.00000	ug/L	137206		12/15/04 1827	jdj
	Bromochloromethane	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Chloroform	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,1,1-Trichloroethane	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Carbon tetrachloride	1.0	U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Benzene	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,2-Dichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Trichloroethene	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,2-Dichloropropane	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Bromodichloromethane	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	cis-1,3-Dichloropropene	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	4-Methyl-2-pentanone (MIBK)	10	U	0.65	10	1.00000	ug/L	137206		12/15/04 1827	jdj
	Toluene	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	trans-1,3-Dichloropropene	1.0	U	0.15	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,1,2-Trichloroethane	1.0	U	0.15	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Tetrachloroethene	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	2-Hexanone	10	U	0.53	10	1.00000	ug/L	137206		12/15/04 1827	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: ERIC ELLIS

Customer Sample ID: LL7sw-003-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-9
 Date Received.....: 12/03/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U	0.060	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,2-Dibromoethane (EDB)	1.0	U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Chlorobenzene	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Ethylbenzene	1.0	U	0.070	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	m&p-Xylenes	2.0	U	0.18	2.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	o-Xylene	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Styrene	1.0	U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Bromoform	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,1,2,2-Tetrachloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	1,2-Dichloroethene (total)	1.0	U	0.23	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj
	Xylenes (total)	1.0	U	0.28	1.0	1.00000	ug/L	137206		12/15/04 1827	jdj

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RYAMP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-SW			Laboratory Sample ID: 232409-9									
Date Sampled.....: 12/02/2004			Date Received.....: 12/03/2004									
Time Sampled.....: 13:15			Time Received.....: 10:00									
Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatiles Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.081	0.50	1.00000	ug/L	137222		12/09/04 1458	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.61	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.64	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.91	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.65	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS							Date: 12/16/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 A0ES				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-003-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-9 Date Received.....: 12/03/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	U	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	137222		12/09/04 1458	dpk
	2-Nitrophenol, Low Level Water	10	U		0.82	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Nitroaniline, Low Level Water	10	U		2.3	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.097	0.50	1.00000	ug/L	137222		12/09/04 1458	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.75	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137222		12/09/04 1458	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	137222		12/09/04 1458	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	137222		12/09/04 1458	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 IRVAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7sw-003-SW Laboratory Sample ID: 232409-9
 Date Sampled.....: 12/02/2004 Date Received.....: 12/03/2004
 Time Sampled.....: 13:15 Time Received.....: 10:00
 Sample Matrix.....: Water

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	137222		12/09/04 1458	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U	3.9	15	1.00000	ug/L	137222		12/09/04 1458	dpk
	Di-n-octyl phthalate, Low Level Water	10	U	2.5	10	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U	0.067	0.40	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U	0.072	0.40	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U	0.084	0.40	1.00000	ug/L	137222		12/09/04 1458	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U	0.086	0.40	1.00000	ug/L	137222		12/09/04 1458	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U	0.13	0.40	1.00000	ug/L	137222		12/09/04 1458	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U	0.19	1.0	1.00000	ug/L	137222		12/09/04 1458	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date: 12/21/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric ELLIS

Customer Sample ID: LL7sw-003-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-9
 Date Received.....: 12/03/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)										
	HMX	12		0.40	1.8	5.00000	ug/L	137479	D1	12/16/04 0224	san
	RDX	32		0.37	1.2	5.00000	ug/L	137479	D1	12/16/04 0224	san
	1,3,5-Trinitrobenzene	0.23	U	0.068	0.23	1.00000	ug/L	137479		12/16/04 0120	san
	1,3-Dinitrobenzene	0.23	U	0.064	0.23	1.00000	ug/L	137479		12/16/04 0120	san
	Nitrobenzene	0.19	U	0.051	0.19	1.00000	ug/L	137479		12/16/04 0120	san
	2,4,6-TNT	0.29	U	0.091	0.29	1.00000	ug/L	137479		12/16/04 0120	san
	Tetryl	0.91	U	0.19	0.91	1.00000	ug/L	137479		12/16/04 0120	san
	2,4-Dinitrotoluene	0.42	U	0.14	0.42	1.00000	ug/L	137479		12/16/04 0120	san
	2,6-Dinitrotoluene	0.50	U	0.17	0.50	1.00000	ug/L	137479		12/16/04 0120	san
	2-Amino-4,6-Dinitrotoluene	0.47		0.14	0.42	1.00000	ug/L	137479		12/16/04 0120	san
	4-Amino-2,6-Dinitrotoluene	0.50		0.13	0.39	1.00000	ug/L	137479		12/16/04 0120	san
	2-Nitrotoluene	0.36	U	0.11	0.36	1.00000	ug/L	137479		12/16/04 0120	san
	4-Nitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137479		12/16/04 0120	san
3-Nitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137479		12/16/04 0120	san	
8332M	NG/PETN by 8332M (HPLC)										
	Nitroglycerine	1.2	U	0.18	1.2	1.00000	ug/L	137473		12/08/04 1024	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-003-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L030390-009 Work Order #...: GX92C1AC Matrix.....: WATER
Date Sampled...: 12/02/04 13:15 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

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

STL CHICAGO

Client Sample ID: LL7sw-003-SW

General Chemistry

Lot-Sample #...: G4L030390-009
Date Sampled...: 12/02/04

Work Order #...: GX92C
Date Received...: 12/03/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/15-12/16/04	4351318
		MDL.....: 0.12				
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
		MDL.....: 0.12				

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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: LL7sw-003-DUP Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water						Laboratory Sample ID: 232409-10 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.65			0.057	0.20	1	mg/L	137053		12/14/04 1232	kd

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-DUP Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-10 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	47			12	38	5	ug/L	136643		12/08/04 1511	daj
7060A	Arsenic (GFAA) Arsenic	1.1	B		0.51	2.0	1	ug/L	136355		12/07/04 0125	daj
7421	Lead (GFAA) Lead	8.6			0.79	3.0	1	ug/L	136730		12/09/04 1434	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	136346		12/07/04 0848	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	137125		12/14/04 1619	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	230			24	150	1	ug/L	137178		12/16/04 0050	tds
	Barium	33			1.3	10	1	ug/L	137178		12/16/04 0050	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137178		12/16/04 0050	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137178		12/16/04 0050	tds
	Calcium	24000			9.5	100	1	ug/L	137178		12/16/04 0050	tds
	Chromium	10	U		1.1	10	1	ug/L	137178		12/16/04 0050	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137178		12/16/04 0050	tds
	Copper	10	U		2.2	10	1	ug/L	137178		12/16/04 0050	tds
	Iron	290			38	120	1	ug/L	137178		12/16/04 0050	tds
	Magnesium	5200			8.1	100	1	ug/L	137178		12/16/04 0050	tds
	Manganese	21			0.41	10	1	ug/L	137178		12/16/04 0050	tds
	Nickel	10	U		1.0	10	1	ug/L	137178		12/16/04 0050	tds
	Potassium	1600			66	500	1	ug/L	137178		12/16/04 0050	tds

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS					Date: 12/22/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-DUP Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-10 Date Received.....: 12/03/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15		U	3.0	15	1	ug/L	137178		12/16/04 0050	tds
	Silver	10		U	0.72	10	1	ug/L	137178		12/16/04 0050	tds
	Sodium	1900			490	1500	1	ug/L	137178		12/16/04 0050	tds
	Vanadium	10		U	1.0	10	1	ug/L	137178		12/16/04 0050	tds
	Zinc	4.2		B	1.6	30	1	ug/L	137178		12/16/04 0050	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Elliotts

Customer Sample ID: LL7sw-003-DUP
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-10
 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	0.15	U		0.046	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	137343		12/12/04 1730	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	137343		12/12/04 1730	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	137343		12/12/04 1730	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	137343		12/12/04 1730	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	137343		12/12/04 1730	kdl

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-003-DUP Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-10 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 0845	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	137249		12/08/04 0845	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0845	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	137249		12/08/04 0845	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	137249		12/08/04 0845	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0845	bjt
	Aroclor 1260	0.58		U	0.17	0.58	1.00000	ug/L	137249		12/08/04 0845	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: LL7sw-003-DUP
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MCL	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 1940	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	137206		12/15/04 1940	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137206		12/15/04 1940	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137206		12/15/04 1940	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137206		12/15/04 1940	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137206		12/15/04 1940	jdj

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-003-DUP			Laboratory Sample ID: 232409-10			Date Sampled: 12/02/2004		Date Received: 12/03/2004				
Time Sampled: 13:15			Time Received: 10:00			Sample Matrix: Water						
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 1940	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137206		12/15/04 1940	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 232409					Date: 12/16/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAMP 14 AOCs				ATTN: EPTC/ELLS			
Customer Sample ID: LL7sw-003-DUP					Laboratory Sample ID: 232409-10						
Date Sampled: 12/02/2004					Date Received: 12/03/2004						
Time Sampled: 13:15					Time Received: 10:00						
Sample Matrix: Water											
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	137222		12/09/04 1825	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U	0.29	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U	0.42	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U	0.32	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U	0.34	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzyl alcohol, Low Level Water	20	U	2.2	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	0.27	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U	0.079	0.49	1.00000	ug/L	137222		12/09/04 1825	dpk
	Hexachloroethane, Low Level Water	4.9	U	0.60	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U	0.098	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Chlorophenol, Low Level Water	4.9	U	0.12	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Nitrobenzene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U	0.30	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U	0.33	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzoic acid, Low Level Water	20	U	2.9	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	Isophorone, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U	1.3	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U	0.63	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Naphthalene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U	0.89	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Chloroaniline, Low Level Water	9.8	U	2.7	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U	0.21	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U	1.4	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	0.64	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Nethylnaphthalene, Low Level Water	0.49	U	0.13	0.49	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Nitroaniline, Low Level Water	4.9	U	0.22	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137222		12/09/04 1825	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: LL7sw-003-DUP
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	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	137222		12/09/04 1825	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	137222		12/09/04 1825	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	137222		12/09/04 1825	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137222		12/09/04 1825	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	137222		12/09/04 1825	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	137222		12/09/04 1825	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/16/2004

CUSTOMER: MKK Engineers, Inc.

PROJECT: USAGE R/W/UP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-003-DUP
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 13:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-10
 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	4.9	U		0.71	4.9	1.00000	ug/L	137222		12/09/04 1825	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	137222		12/09/04 1825	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	137222		12/09/04 1825	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	137222		12/09/04 1825	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	137222		12/09/04 1825	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	137222		12/09/04 1825	dpk

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/21/2004				
CUSTOMER: NCM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: ERIC ELLIS						
Customer Sample ID: LL7sw-003-DUP Date Sampled.....: 12/02/2004 Time Sampled.....: 13:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-10 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)											
	NMX	12		M	0.14	0.64	1.00000	ug/L	137479		12/15/04 1157	san
	RDX	34			0.66	2.1	5.00000	ug/L	137479	DT	12/16/04 0434	san
	1,3,5-Trinitrobenzene	0.41	U		0.12	0.41	1.00000	ug/L	137479		12/15/04 1157	san
	1,3-Dinitrobenzene	0.41	U		0.11	0.41	1.00000	ug/L	137479		12/15/04 1157	san
	Nitrobenzene	0.33	U		0.091	0.33	1.00000	ug/L	137479		12/15/04 1157	san
	2,4,6-TNT	0.52	U		0.16	0.52	1.00000	ug/L	137479		12/15/04 1157	san
	Tetryl	1.6	U		0.34	1.6	1.00000	ug/L	137479		12/15/04 1157	san
	2,4-Dinitrotoluene	0.74	U		0.25	0.74	1.00000	ug/L	137479		12/15/04 1157	san
	2,6-Dinitrotoluene	0.89	U		0.30	0.89	1.00000	ug/L	137479		12/15/04 1157	san
	2-Amino-4,6-Dinitrotoluene	0.48	J	a	0.25	0.74	1.00000	ug/L	137479		12/15/04 1157	san
	4-Amino-2,6-Dinitrotoluene	0.50	J	a	0.23	0.68	1.00000	ug/L	137479		12/15/04 1157	san
	2-Nitrotoluene	0.64	U		0.19	0.64	1.00000	ug/L	137479		12/15/04 1157	san
	4-Nitrotoluene	0.64	U		0.21	0.64	1.00000	ug/L	137479		12/15/04 1157	san
3-Nitrotoluene	0.64	U		0.21	0.64	1.00000	ug/L	137479		12/15/04 1157	san	
8332M	NG/PETM by 8332M (HPLC)											
Nitroglycerine	2.1	U		0.31	2.1	1.00000	ug/L	137473		12/08/04 1211	san	

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-003-DUP

Trace Level Organic Compounds

Lot-Sample #...: G4L030390-010 Work Order #...: GX92E1AC Matrix.....: WATER
Date Sampled...: 12/02/04 13:15 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

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

STL CHICAGO

Client Sample ID: LL7sw-003-DUP

General Chemistry

Lot-Sample #...: G4L030390-010
Date Sampled...: 12/02/04

Work Order #...: GX92E
Date Received...: 12/03/04

Matrix.....: WATER

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

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Job Number: 232497 LABORATORY TEST RESULTS Date: 01/04/2005

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

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/06/2004
 Time Sampled.....: 16:05
 Sample Matrix.....: Water

Laboratory Sample ID: 232497-13
 Date Received.....: 12/07/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.71		0.057	0.20	1	mg/L	137053		12/14/04 1406	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232478						Date: 12/22/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis				
Customer Sample ID: LL7sw-006-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 09:30 Sample Matrix.....: Water						Laboratory Sample ID: 232478-4 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
7041	Antimony (GFAA) Antimony	7.5	U		2.5	7.5	1	ug/L	136643		12/08/04 1434	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	136622		12/08/04 1623	daj
7421	Lead (GFAA) Lead	39			0.79	3.0	1	ug/L	136730		12/09/04 1559	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	136776		12/09/04 1318	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	137125		12/14/04 1509	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	180			24	150	1	ug/L	137508		12/19/04 0457	tds
	Barium	26			1.3	10	1	ug/L	137508		12/19/04 0457	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0457	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0457	tds
	Calcium	22000			9.5	100	1	ug/L	137508		12/19/04 0457	tds
	Chromium	10	U		1.1	10	1	ug/L	137508		12/19/04 0457	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137508		12/19/04 0457	tds
	Copper	10	U		2.2	10	1	ug/L	137508		12/19/04 0457	tds
	Iron	200			38	120	1	ug/L	137508		12/19/04 0457	tds
	Magnesium	4800			8.1	100	1	ug/L	137508		12/19/04 0457	tds
	Manganese	21			0.41	10	1	ug/L	137508		12/19/04 0457	tds
	Nickel	10	U		1.0	10	1	ug/L	137508		12/19/04 0457	tds
	Potassium	1600			66	500	1	ug/L	137508		12/19/04 0457	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232478								Date: 12/22/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RMAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LL7sw-006-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 09:30 Sample Matrix.....: Water						Laboratory Sample ID: 232478-4 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
	Selenium	15	U		3.0	15	1	ug/L	137508		12/19/04 0457	tds
	Silver	10	U		0.72	10	1	ug/L	137508		12/19/04 0457	tds
	Sodium	2000			490	1500	1	ug/L	137508		12/19/04 0457	tds
	Vanadium	10	U		1.0	10	1	ug/L	137508		12/19/04 0457	tds
	Zinc	5.2	B		1.6	30	1	ug/L	137508		12/19/04 0457	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	beta-BHC	0.10	U		0.028	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	delta-BHC	0.10	U		0.025	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	Aldrin	0.10	U		0.028	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endosulfan I	0.10	U		0.021	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Dieldrin	0.10	U		0.018	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	4,4'-DDE	0.10	U		0.023	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endrin	0.10	U		0.017	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	Methoxychlor	0.60	U		0.17	0.60	1.00000	ug/L	137532		12/15/04 1226	kdL
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	137532		12/15/04 1226	kdL
	gamma-Chlordane	0.10	U		0.017	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	137532		12/15/04 1226	kdL
	Endrin ketone	0.10	U		0.029	0.10	1.00000	ug/L	137532		12/15/04 1226	kdL
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	137532		12/15/04 1226	kdL

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478 Date: 12/17/2004

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

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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
8082	PCB Analysis										
	Aroclor 1016	0.60	U	0.18	0.60	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1221	1.3	U	0.42	1.3	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1232	1.3	U	0.35	1.3	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1242	1.3	U	0.43	1.3	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1248	1.5	U	0.48	1.5	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1254	1.3	U	0.35	1.3	1.00000	ug/L	137383		12/15/04 1825	bjt
	Aroclor 1260	0.60	U	0.17	0.60	1.00000	ug/L	137383		12/15/04 1825	bjt

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/18/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-006-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 09:30 Sample Matrix.....: Water			Laboratory Sample ID: 232478-4 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		12/15/04 2342	jdj
	Vinyl chloride	1.0		U	0.080	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Bromomethane	1.0		U	0.10	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Chloroethane	1.0		U	0.080	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,1-Dichloroethene	1.0		U	0.12	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Carbon disulfide	5.0		U	0.20	5.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Acetone	10		U	1.8	10	1.00000	ug/L	137286		12/15/04 2342	jdj
	Methylene chloride	1.5		U	0.35	1.5	1.00000	ug/L	137286		12/15/04 2342	jdj
	trans-1,2-Dichloroethene	1.0		U	0.14	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,1-Dichloroethane	1.0		U	0.11	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	cis-1,2-Dichloroethene	1.0		U	0.090	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	2-Butanone (MEK)	10		U	1.2	10	1.00000	ug/L	137286		12/15/04 2342	jdj
	Bromochloromethane	1.0		U	0.10	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Chloroform	1.0		U	0.11	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,1,1-Trichloroethane	1.0		U	0.080	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Carbon tetrachloride	1.0		U	0.13	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Benzene	1.0		U	0.090	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,2-Dichloroethane	1.0		U	0.090	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Trichloroethene	1.0		U	0.10	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,2-Dichloropropane	1.0		U	0.12	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Bromodichloromethane	1.0		U	0.11	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	cis-1,3-Dichloropropene	1.0		U	0.12	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	4-Methyl-2-pentanone (MIBK)	10		U	0.65	10	1.00000	ug/L	137286		12/15/04 2342	jdj
	Toluene	1.0		U	0.10	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	trans-1,3-Dichloropropene	1.0		U	0.15	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,1,2-Trichloroethane	1.0		U	0.15	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Tetrachloroethene	1.0		U	0.090	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	2-Hexanone	10		U	0.53	10	1.00000	ug/L	137286		12/15/04 2342	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/18/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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		12/15/04 2342	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/15/04 2342	jdj

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS					Date: 12/20/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RMAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-006-SW			Laboratory Sample ID: 232478-4									
Date Sampled: 12/03/2004			Date Received: 12/06/2004									
Time Sampled: 09:30			Time Received: 09:20									
Sample Matrix: Water												
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	137499		12/13/04 0410	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.081	0.50	1.00000	ug/L	137499		12/13/04 0410	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.61	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.64	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.91	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.65	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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
	4-Chloro-3-methylphenol, Low Level Water	10	U	2.4	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U	0.11	0.50	1.00000	ug/L	137499		12/13/04 0410	dpk
	2-Nitrophenol, Low Level Water	10	U	0.82	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	3-Nitroaniline, Low Level Water	10	U	2.1	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	Dimethyl phthalate, Low Level Water	2.0	U	0.21	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4-Dinitrophenol, Low Level Water	20	U	3.3	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	Acenaphthylene, Low Level Water	1.0	U	0.12	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U	0.13	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Acenaphthene, Low Level Water	1.0	U	0.12	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Dibenzofuran, Low Level Water	2.0	U	0.13	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Nitrophenol, Low Level Water	20	U	3.7	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	Fluorene, Low Level Water	1.0	U	0.13	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Nitroaniline, Low Level Water	10	U	2.3	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U	0.19	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Hexachlorobenzene, Low Level Water	0.50	U	0.097	0.50	1.00000	ug/L	137499		12/13/04 0410	dpk
	Diethyl phthalate, Low Level Water	2.0	U	0.15	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U	0.75	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Pentachlorophenol, Low Level Water	10	U	1.7	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U	0.13	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U	2.4	20	1.00000	ug/L	137499		12/13/04 0410	dpk
	Phenanthrene, Low Level Water	1.0	U	0.14	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Anthracene, Low Level Water	1.0	U	0.15	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Carbazole, Low Level Water	5.0	U	0.29	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U	0.36	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Fluoranthene, Low Level Water	1.0	U	0.14	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Pyrene, Low Level Water	1.0	U	0.12	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U	0.39	2.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U	0.049	0.20	1.00000	ug/L	137499		12/13/04 0410	dpk
	Chrysene, Low Level Water	0.50	U	0.045	0.50	1.00000	ug/L	137499		12/13/04 0410	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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
	3,3-Dichlorobenzidine, Low Level Water	5.0	U	0.72	5.0	1.00000	ug/L	137499		12/13/04 0410	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U	3.9	15	1.00000	ug/L	137499		12/13/04 0410	dpk
	Di-n-octyl phthalate, Low Level Water	10	U	2.5	10	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U	0.067	0.40	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U	0.072	0.40	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U	0.084	0.40	1.00000	ug/L	137499		12/13/04 0410	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U	0.086	0.40	1.00000	ug/L	137499		12/13/04 0410	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U	0.13	0.40	1.00000	ug/L	137499		12/13/04 0410	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U	0.19	1.0	1.00000	ug/L	137499		12/13/04 0410	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-006-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 09:30
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-4
 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
8330	Explosives by 8330 (HPLC)											
	HMX	11			0.68	3.1	10.0000	ug/L	137544	D1	12/16/04 1708	bdw
	RDX	37			0.64	2.0	10.0000	ug/L	137544	D1	12/16/04 1708	bdw
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	137544		12/15/04 1357	bdw
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	137544		12/15/04 1357	bdw
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	137544		12/15/04 1357	bdw
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	137544		12/15/04 1357	bdw
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	137544		12/15/04 1357	bdw
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	137544		12/15/04 1357	bdw
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	137544		12/15/04 1357	bdw
	2-Amino-4,6-Dinitrotoluene	0.48			0.12	0.36	1.00000	ug/L	137544		12/15/04 1357	bdw
	4-Amino-2,6-Dinitrotoluene	0.53			0.11	0.33	1.00000	ug/L	137544		12/15/04 1357	bdw
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	137544		12/15/04 1357	bdw
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137544		12/15/04 1357	bdw
3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	137544		12/15/04 1357	bdw	
8332M	NG/PETM by 8332M (HPLC)											
Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	137545		12/09/04 0457	bdw	

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-006-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L060183-002 Work Order #...: G0DEX1AC Matrix.....: WATER
Date Sampled...: 12/03/04 09:30 Date Received...: 12/06/04
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

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

STL CHICAGO

Client Sample ID: LL7sw-006-SW

General Chemistry

Lot-Sample #...: G4L060183-002
Date Sampled...: 12/03/04

Work Order #...: GODEX
Date Received...: 12/06/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
		MDL.....: 0.12				

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LABORATORY TEST RESULTS												
Job Number: 232478						Date: 12/22/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 ADDS				ATTN: Eric Ellis				
Customer Sample ID: LL7sw-007-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 10:10 Sample Matrix.....: Water						Laboratory Sample ID: 232478-5 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
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	136643		12/08/04 1446	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136622		12/08/04 1635	daj
7421	Lead (GFAA) Lead	3.0		U	0.79	3.0	1	ug/L	136730		12/09/04 1611	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	136776		12/09/04 1331	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137125		12/14/04 1511	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	100		B	24	150	1	ug/L	137508		12/19/04 0503	tds
	Barium	28			1.3	10	1	ug/L	137508		12/19/04 0503	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0503	tds
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0503	tds
	Calcium	19000			9.5	100	1	ug/L	137508		12/19/04 0503	tds
	Chromium	10		U	1.1	10	1	ug/L	137508		12/19/04 0503	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137508		12/19/04 0503	tds
	Copper	10		U	2.2	10	1	ug/L	137508		12/19/04 0503	tds
	Iron	97		B	38	120	1	ug/L	137508		12/19/04 0503	tds
	Magnesium	4500			8.1	100	1	ug/L	137508		12/19/04 0503	tds
	Manganese	6.2		B	0.41	10	1	ug/L	137508		12/19/04 0503	tds
	Nickel	1.0		B	1.0	10	1	ug/L	137508		12/19/04 0503	tds
	Potassium	1600			66	500	1	ug/L	137508		12/19/04 0503	tds

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/22/2004				
CUSTOMER: HKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-007-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 10:10 Sample Matrix.....: Water			Laboratory Sample ID: 232478-5 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
	Selenium	15		U	3.0	15	1	ug/L	137508		12/19/04 0503	tds
	Silver	10		U	0.72	10	1	ug/L	137508		12/19/04 0503	tds
	Sodium	2100			490	1500	1	ug/L	137508		12/19/04 0503	tds
	Vanadium	10		U	1.0	10	1	ug/L	137508		12/19/04 0503	tds
	Zinc	4.7		B	1.6	30	1	ug/L	137508		12/19/04 0503	tds

* In Description = Dry Mgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/20/2004				
CUSTOMER: RKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ACES				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-007-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 10:10 Sample Matrix.....: Water			Laboratory Sample ID: 232478-5 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	
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U	0.046	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	beta-BHC	0.098	U	0.027	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	delta-BHC	0.098	U	0.025	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	gamma-BHC (Lindane)	0.15	U	0.041	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Heptachlor	0.15	U	0.040	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Aldrin	0.098	U	0.027	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Heptachlor epoxide	0.15	U	0.035	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endosulfan I	0.098	U	0.021	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Dieldrin	0.098	U	0.018	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	4,4'-DDE	0.098	U	0.023	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endrin	0.098	U	0.017	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endosulfan II	0.15	U	0.041	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	4,4'-DDD	0.11	U	0.035	0.11	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endosulfan sulfate	0.15	U	0.043	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	4,4'-DDT	0.15	U	0.048	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Methoxychlor	0.59	U	0.17	0.59	1.00000	ug/L	137532		12/15/04 1251	kdl	
	alpha-Chlordane	0.049	U	0.016	0.049	1.00000	ug/L	137532		12/15/04 1251	kdl	
	gamma-Chlordane	0.098	U	0.017	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endrin aldehyde	0.15	U	0.034	0.15	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Endrin ketone	0.098	U	0.028	0.098	1.00000	ug/L	137532		12/15/04 1251	kdl	
	Toxaphene	0.49	U	0.14	0.49	1.00000	ug/L	137532		12/15/04 1251	kdl	

* In Description = Dry Wgt.

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Job Number: 232478		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: NIG Engineers, Inc.			PROJECT: USACE RVAAP 14 AODS				ATTN: Eric Ellis					
Customer Sample ID: L17sw-007-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 10:10 Sample Matrix.....: Water			Laboratory Sample ID: 232478-5 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
8082	PCB Analysis											
	Aroclor 1016	0.59		U	0.18	0.59	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	137383		12/15/04 1850	bjt
	Aroclor 1260	0.59		U	0.17	0.59	1.00000	ug/L	137383		12/15/04 1850	bjt

* In Description = Dry Wgt.

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Job Number: 232478 LABORATORY TEST RESULTS Date: 12/18/2004

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

Customer Sample ID: LL7SW-007-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 10:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-5
 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 0005	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	137286		12/16/04 0005	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/16/04 0005	jdj
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0005	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0005	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0005	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0005	jdj

* 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: LL7SW-007-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 10:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-5
 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 0005	jdh
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0005	jdh

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7SW-007-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 10:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-5
 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
8270C	Semivolatile Organics										
	Phenol, Low Level Water	4.9	U	0.34	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U	0.29	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	1,3-Dichlorobenzene, Low Level Water	0.87	J	0.42	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U	0.32	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U	0.34	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzyl alcohol, Low Level Water	20	U	2.2	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	0.27	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U	0.079	0.49	1.00000	ug/L	137499		12/13/04 0433	dpk
	Hexachloroethane, Low Level Water	4.9	U	0.60	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U	0.098	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Chlorophenol, Low Level Water	4.9	U	0.12	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Nitrobenzene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U	0.30	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U	0.33	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzoic acid, Low Level Water	20	U	2.9	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	Isophorone, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U	1.3	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U	0.63	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Naphthalene, Low Level Water	0.98	U	0.16	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U	0.89	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Chloroaniline, Low Level Water	9.8	U	2.7	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U	0.21	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U	1.4	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U *	0.64	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U	0.13	0.49	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Nitroaniline, Low Level Water	4.9	U	0.22	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U	0.25	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVRAP 14 ADES

ATTN: Eric Ellis

Customer Sample ID: LL7sw-007-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 10:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-5
 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
	4-Chloro-3-methylphenol, Low Level Water	9.8	U		2.4	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	137499		12/13/04 0433	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	137499		12/13/04 0433	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137499		12/13/04 0433	dpk
	Phenanthrene, Low Level Water	1.7	U		0.14	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Anthracene, Low Level Water	0.39	J		0.15	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Fluoranthene, Low Level Water	2.9	U		0.14	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Pyrene, Low Level Water	2.3	U		0.12	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzo(a)anthracene, Low Level Water	1.4	U	H	0.048	0.20	1.00000	ug/L	137499		12/13/04 0433	dpk
	Chrysene, Low Level Water	1.6	U		0.044	0.49	1.00000	ug/L	137499		12/13/04 0433	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232478 Date: 12/20/2004

CUSTOMER: HCH Engineers, Inc. PROJECT: USACE RYRAP 14 ADDS ATTN: Eric Ellis

Customer Sample ID: LL7sw-007-SW
 Date Sampled.....: 12/03/2004
 Time Sampled.....: 10:10
 Sample Matrix.....: Water

Laboratory Sample ID: 232478-5
 Date Received.....: 12/06/2004
 Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DP	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.71	4.9	1.00000	ug/L	137499		12/13/04 0433	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	137499		12/13/04 0433	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzo(b)fluoranthene, Low Level Water	2.0		M	0.066	0.39	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzo(k)fluoranthene, Low Level Water	1.2		M	0.071	0.39	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzo(a)pyrene, Low Level Water	1.8		H	0.082	0.39	1.00000	ug/L	137499		12/13/04 0433	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	1.0			0.084	0.39	1.00000	ug/L	137499		12/13/04 0433	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.42		H	0.13	0.39	1.00000	ug/L	137499		12/13/04 0433	dpk
	Benzo(ghi)perylene, Low Level Water	1.3			0.19	0.98	1.00000	ug/L	137499		12/13/04 0433	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232478						Date: 12/21/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LL7sw-007-SW Date Sampled.....: 12/03/2004 Time Sampled.....: 10:10 Sample Matrix.....: Water						Laboratory Sample ID: 232478-5 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
8330	Explosives by 8330 (NPLC)											
	HMX	14			0.93	4.2	10.0000	ug/L	137544	01	12/16/04 1813	bdw
	RDX	49			0.87	2.7	10.0000	ug/L	137544	01	12/16/04 1813	bdw
	1,3,5-Trinitrobenzene	0.27	U		0.079	0.27	1.00000	ug/L	137544		12/15/04 1429	bdw
	1,3-Dinitrobenzene	0.27	U		0.075	0.27	1.00000	ug/L	137544		12/15/04 1429	bdw
	Nitrobenzene	0.22	U		0.060	0.22	1.00000	ug/L	137544		12/15/04 1429	bdw
	2,4,6-TNT	0.34	U		0.11	0.34	1.00000	ug/L	137544		12/15/04 1429	bdw
	Tetryl	1.1	U		0.22	1.1	1.00000	ug/L	137544		12/15/04 1429	bdw
	2,4-Dinitrotoluene	0.49	U		0.17	0.49	1.00000	ug/L	137544		12/15/04 1429	bdw
	2,6-Dinitrotoluene	0.59	U		0.20	0.59	1.00000	ug/L	137544		12/15/04 1429	bdw
	2-Amino-4,6-Dinitrotoluene	0.63			0.16	0.49	1.00000	ug/L	137544		12/15/04 1429	bdw
	4-Amino-2,6-Dinitrotoluene	0.68			0.15	0.45	1.00000	ug/L	137544		12/15/04 1429	bdw
	2-Nitrotoluene	0.42	U		0.13	0.42	1.00000	ug/L	137544		12/15/04 1429	bdw
	4-Nitrotoluene	0.42	U		0.14	0.42	1.00000	ug/L	137544		12/15/04 1429	bdw
	3-Nitrotoluene	0.42	U		0.14	0.42	1.00000	ug/L	137544		12/15/04 1429	bdw
8332M	NG/PETN by 8332M (HPLC) Nitroglycerine	1.4	U	a	0.21	1.4	1.00000	ug/L	137545		12/09/04 0532	bdw

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-007-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L060183-003 Work Order #...: GODE01AC Matrix.....: WATER
Date Sampled...: 12/03/04 10:10 Date Received...: 12/06/04
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

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

STL CHICAGO

Client Sample ID: LL7sw-007-SW

General Chemistry

Lot-Sample #...: G4L060183-003
Date Sampled...: 12/03/04

Work Order #...: GODE0
Date Received...: 12/06/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
		MDL.....	0.12			

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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: LL7sw-008-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 15:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-7 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.58			0.057	0.20	1	mg/L	137053		12/14/04 1218	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date: 12/22/2004

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

Customer Sample ID: LL7sw-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 Date Received.....: 12/03/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	REL	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 2257	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136355		12/07/04 0013	daj
7421	Lead (GFAA) Lead	7.4			0.79	3.0	1	ug/L	136730		12/09/04 1318	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	136346		12/07/04 0732	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137125		12/14/04 1607	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	83		B	24	150	1	ug/L	137178		12/15/04 2343	tds
	Barium	31			1.3	10	1	ug/L	137178		12/15/04 2343	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137178		12/15/04 2343	tds
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137178		12/15/04 2343	tds
	Calcium	21000			9.5	100	1	ug/L	137178		12/15/04 2343	tds
	Chromium	10		U	1.1	10	1	ug/L	137178		12/15/04 2343	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137178		12/15/04 2343	tds
	Copper	10		U	2.2	10	1	ug/L	137178		12/15/04 2343	tds
	Iron	110		B	38	120	1	ug/L	137178		12/15/04 2343	tds
	Magnesium	4900			8.1	100	1	ug/L	137178		12/15/04 2343	tds
	Manganese	9.4		B	0.41	10	1	ug/L	137178		12/15/04 2343	tds
	Nickel	2.2		B	1.0	10	1	ug/L	137178		12/15/04 2343	tds
	Potassium	1800			66	500	1	ug/L	137178		12/15/04 2343	tds

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-008-SW			Laboratory Sample ID: 232409-7									
Date Sampled: 12/02/2004			Date Received: 12/03/2004									
Time Sampled: 15:15			Time Received: 10:00									
Sample Matrix: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	137178		12/15/04 2343	tds
	Silver	10	U		0.72	10	1	ug/L	137178		12/15/04 2343	tds
	Sodium	1900			490	1500	1	ug/L	137178		12/15/04 2343	tds
	Vanadium	10	U		1.0	10	1	ug/L	137178		12/15/04 2343	tds
	Zinc	3.6	B		1.6	30	1	ug/L	137178		12/15/04 2343	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 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 Date Received.....: 12/03/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RC	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	137343		12/12/04 1524	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	137343		12/12/04 1524	kdl
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	137343		12/12/04 1524	kdl
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	137343		12/12/04 1524	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	137343		12/12/04 1524	kdl

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: HCH Engineers, Inc.			PROJECT: USAGE: RVAAP 14 ADES				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-008-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 15:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-7 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	0.59		U	0.18	0.59	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0642	bjt
	Aroclor 1260	0.59		U	0.17	0.59	1.00000	ug/L	137249		12/08/04 0642	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVALP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7SW-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 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 1739	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,1-Dichloroethane	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	137206		12/15/04 1739	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137206		12/15/04 1739	jdj
	trans-1,2-Dichloroethane	1.0	U		0.14	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	cis-1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137206		12/15/04 1739	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Trichloroethane	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137206		12/15/04 1739	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137206		12/15/04 1739	jdj

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 MOCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-008-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 15:15 Sample Matrix.....: Water			Laboratory Sample ID: 232409-7 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 1739	jdj
	1,2-Dibromoethane (EDB)	1.0		U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Chlorobenzene	1.0		U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Ethylbenzene	1.0		U	0.070	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	m&p-Xylenes	2.0		U	0.18	2.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	o-Xylene	1.0		U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Styrene	1.0		U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Bromoform	1.0		U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,1,2,2-Tetrachloroethane	1.0		U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	1,2-Dichloroethene (total)	1.0		U	0.23	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj
	Xylenes (total)	1.0		U	0.28	1.0	1.00000	ug/L	137206		12/15/04 1739	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232409						Date: 12/16/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 AOCs				ATTN: EPTc E111s				
Customer Sample ID: LL7sw-008-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 15:15 Sample Matrix.....: Water						Laboratory Sample ID: 232409-7 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	5.0	U		0.35	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	137222		12/09/04 1739	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409

Date: 12/16/2004

CUSTOMER: HOK Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 Date Received.....: 12/03/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	137222		12/09/04 1739	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	137222		12/09/04 1739	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137222		12/09/04 1739	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1739	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	137222		12/09/04 1739	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	137222		12/09/04 1739	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date: 12/16/2004

CUSTOMER: NIK Engineers, Inc. PROJECT: USACE RYAAP 16 ADDS ATTN: Eric Ellis

Customer Sample ID: LL7sw-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 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	5.0	U		0.71	5.0	1.00000	ug/L	137222		12/09/04 1739	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	137222		12/09/04 1739	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	137222		12/09/04 1739	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	137222		12/09/04 1739	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	137222		12/09/04 1739	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	137222		12/09/04 1739	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 RYAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-008-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 15:15
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-7
 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	20		0.79	3.6	10.0000	ug/L	137479	DT	12/15/04 2342	san
	RDX	54		0.75	2.3	10.0000	ug/L	137479	DT	12/15/04 2342	san
	1,3,5-Trinitrobenzene	0.23	U	0.068	0.23	1.00000	ug/L	137479		12/15/04 0915	san
	1,3-Dinitrobenzene	0.23	U	0.064	0.23	1.00000	ug/L	137479		12/15/04 0915	san
	Nitrobenzene	0.19	U	0.051	0.19	1.00000	ug/L	137479		12/15/04 0915	san
	2,4,6-TNT	0.29	U	0.091	0.29	1.00000	ug/L	137479		12/15/04 0915	san
	Tetryl	0.91	U	0.19	0.91	1.00000	ug/L	137479		12/15/04 0915	san
	2,4-Dinitrotoluene	0.42	U	0.14	0.42	1.00000	ug/L	137479		12/15/04 0915	san
	2,6-Dinitrotoluene	0.50	U	0.17	0.50	1.00000	ug/L	137479		12/15/04 0915	san
	2-Amino-4,6-Dinitrotoluene	0.81		0.14	0.42	1.00000	ug/L	137479		12/15/04 0915	san
	4-Amino-2,6-Dinitrotoluene	0.86		0.13	0.39	1.00000	ug/L	137479		12/15/04 0915	san
	2-Nitrotoluene	0.36	U	0.11	0.36	1.00000	ug/L	137479		12/15/04 0915	san
	4-Nitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137479		12/15/04 0915	san
	3-Nitrotoluene	0.36	U	0.12	0.36	1.00000	ug/L	137479		12/15/04 0915	san
8332M	NG/PETN by 8332M (HPLC)										
	Nitroglycerine	1.2	U	0.18	1.2	1.00000	ug/L	137473		12/08/04 0913	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-008-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L030390-007 Work Order #...: GX9171AC Matrix.....: WATER
Date Sampled...: 12/02/04 15:15 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

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

STL CHICAGO

Client Sample ID: LL7sw-008-SW

General Chemistry

Lot-Sample #...: G4L030390-007
Date Sampled...: 12/02/04

Work Order #...: GX917
Date Received...: 12/03/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
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: 232409								Date: 12/29/2004			
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCS				ATTN: Eric Ellis			
Customer Sample ID: L17sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water				Laboratory Sample ID: 232409-8 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	0.24		0.057	0.20	1	mg/L	137053		12/14/04 1221	kd

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date:12/22/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water			Laboratory Sample ID: 232409-8 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 2309	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	136355		12/07/04 0025	daj
7421	Lead (GFAA) Lead	8.7			0.79	3.0	1	ug/L	136730		12/09/04 1330	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	136346		12/07/04 0744	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	137125		12/14/04 1609	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	430			24	150	1	ug/L	137178		12/15/04 2349	tds
	Barium	44			1.3	10	1	ug/L	137178		12/15/04 2349	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2349	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137178		12/15/04 2349	tds
	Calcium	14000			9.5	100	1	ug/L	137178		12/15/04 2349	tds
	Chromium	10	U		1.1	10	1	ug/L	137178		12/15/04 2349	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137178		12/15/04 2349	tds
	Copper	4.6	B		2.2	10	1	ug/L	137178		12/15/04 2349	tds
	Iron	540			38	120	1	ug/L	137178		12/15/04 2349	tds
	Magnesium	4300			8.1	100	1	ug/L	137178		12/15/04 2349	tds
	Manganese	94			0.41	10	1	ug/L	137178		12/15/04 2349	tds
	Nickel	7.8	B		1.0	10	1	ug/L	137178		12/15/04 2349	tds
	Potassium	1300			66	500	1	ug/L	137178		12/15/04 2349	tds

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS					Date: 12/22/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water			Laboratory Sample ID: 232409-8 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 2349	tds
	Silver	10		U	0.72	10	1	ug/L	137178		12/15/04 2349	tds
	Sodium	2000			490	1500	1	ug/L	137178		12/15/04 2349	tds
	Vanadium	10		U	1.0	10	1	ug/L	137178		12/15/04 2349	tds
	Zinc	18		B	1.6	30	1	ug/L	137178		12/15/04 2349	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 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7sw-009-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 14:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-8
 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 1803	jdj
	Vinyl chloride	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Bromomethane	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Chloroethane	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,1-Dichloroethene	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Carbon disulfide	5.0	U	0.20	5.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Acetone	10	U	1.8	10	1.00000	ug/L	137206		12/15/04 1803	jdj
	Methylene chloride	1.5	U	0.35	1.5	1.00000	ug/L	137206		12/15/04 1803	jdj
	trans-1,2-Dichloroethene	1.0	U	0.14	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,1-Dichloroethane	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	cis-1,2-Dichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	2-Butanone (MEK)	10	U	1.2	10	1.00000	ug/L	137206		12/15/04 1803	jdj
	Bromochloromethane	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Chloroform	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,1,1-Trichloroethane	1.0	U	0.080	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Carbon tetrachloride	1.0	U	0.13	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Benzene	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,2-Dichloroethane	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Trichloroethene	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,2-Dichloropropane	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Bromodichloromethane	1.0	U	0.11	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	cis-1,3-Dichloropropene	1.0	U	0.12	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	4-Methyl-2-pentanone (MIBK)	10	U	0.65	10	1.00000	ug/L	137206		12/15/04 1803	jdj
	Toluene	1.0	U	0.10	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	trans-1,3-Dichloropropene	1.0	U	0.15	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,1,2-Trichloroethane	1.0	U	0.15	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Tetrachloroethene	1.0	U	0.090	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	2-Hexanone	10	U	0.53	10	1.00000	ug/L	137206		12/15/04 1803	jdj

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water			Laboratory Sample ID: 232409-8 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 1803	jdj
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137206		12/15/04 1803	jdj

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date: 12/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RYANP 14 AGCS AFFIN: EPTC ELLIS

Customer Sample ID: LL7sw-009-SW Laboratory Sample ID: 232409-8
 Date Sampled.....: 12/02/2004 Date Received.....: 12/03/2004
 Time Sampled.....: 14:50 Time Received.....: 10:00
 Sample Matrix.....: Water

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	137343		12/12/04 1549	kdL
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	137343		12/12/04 1549	kdL
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	137343		12/12/04 1549	kdL
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	137343		12/12/04 1549	kdL
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	137343		12/12/04 1549	kdL
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	137343		12/12/04 1549	kdL

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RMAAP T4 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water			Laboratory Sample ID: 232409-8 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 0706	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	137249		12/08/04 0706	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0706	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	137249		12/08/04 0706	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	137249		12/08/04 0706	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	137249		12/08/04 0706	bjt
	Aroclor 1260	0.58		U	0.17	0.58	1.00000	ug/L	137249		12/08/04 0706	bjt

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date:12/16/2004				
CUSTOMER: HCN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-009-SW			Laboratory Sample ID: 232409-8			Date Sampled.....: 12/02/2004			Date Received.....: 12/03/2004			
Time Sampled.....: 14:50			Time Received.....: 10:00			Sample Matrix.....: Water						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
B270C	Semivolatile Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	137222		12/09/04 1802	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.099	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS							Date: 12/16/2004			
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RYAAP 14 ADCS				ATTN: Eric ELCTB				
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water				Laboratory Sample ID: 232409-8 Date Received.....: 12/03/2004 Time Received.....: 10:00								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	137222		12/09/04 1802	dpk
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	137222		12/09/04 1802	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	137222		12/09/04 1802	dpk
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	137222		12/09/04 1802	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	137222		12/09/04 1802	dpk

* In Description = Dry Wgt.

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Job Number: 232409		LABORATORY TEST RESULTS						Date: 12/16/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-009-SW Date Sampled.....: 12/02/2004 Time Sampled.....: 14:50 Sample Matrix.....: Water			Laboratory Sample ID: 232409-8 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	5.0	U		0.71	5.0	1.00000	ug/L	137222		12/09/04 1802	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	137222		12/09/04 1802	dpk
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	137222		12/09/04 1802	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	137222		12/09/04 1802	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	137222		12/09/04 1802	dpk
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	137222		12/09/04 1802	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232409 Date: 12/21/2004

CUSTOMER: HKM Engineers, Inc. PROJECT: USAGE RVAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7sw-009-SW
 Date Sampled.....: 12/02/2004
 Time Sampled.....: 14:50
 Sample Matrix.....: Water

Laboratory Sample ID: 232409-8
 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	2.3			0.11	0.52	1.00000	ug/L	137479		12/16/04 0015	san
	RDX	3.8			0.11	0.33	1.00000	ug/L	137479		12/16/04 0015	san
	1,3,5-Trinitrobenzene	0.33	U		0.097	0.33	1.00000	ug/L	137479		12/16/04 0015	san
	1,3-Dinitrobenzene	0.33	U		0.092	0.33	1.00000	ug/L	137479		12/16/04 0015	san
	Nitrobenzene	0.27	U		0.073	0.27	1.00000	ug/L	137479		12/16/04 0015	san
	2,4,6-TMT	0.42	U		0.13	0.42	1.00000	ug/L	137479		12/16/04 0015	san
	Tetryl	1.3	U		0.27	1.3	1.00000	ug/L	137479		12/16/04 0015	san
	2,4-Dinitrotoluene	0.60	U		0.20	0.60	1.00000	ug/L	137479		12/16/04 0015	san
	2,6-Dinitrotoluene	0.72	U		0.24	0.72	1.00000	ug/L	137479		12/16/04 0015	san
	2-Amino-4,6-Dinitrotoluene	0.60	U	a	0.20	0.60	1.00000	ug/L	137479		12/16/04 0015	san
	4-Amino-2,6-Dinitrotoluene	0.55	U	a	0.19	0.55	1.00000	ug/L	137479		12/16/04 0015	san
	2-Nitrotoluene	0.52	U		0.16	0.52	1.00000	ug/L	137479		12/16/04 0015	san
	4-Nitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	137479		12/16/04 0015	san
3-Nitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	137479		12/16/04 0015	san	
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.7	U		0.25	1.7	1.00000	ug/L	137473		12/08/04 0949	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7sw-009-SW

Trace Level Organic Compounds

Lot-Sample #...: G4L030390-008 Work Order #...: GX9191AC Matrix.....: WATER
Date Sampled...: 12/02/04 14:50 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

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

STL CHICAGO

Client Sample ID: LL7sw-009-SW

General Chemistry

Lot-Sample #...: G4L030390-008
Date Sampled...: 12/02/04

Work Order #...: GX919
Date Received...: 12/03/04

Matrix.....: WATER

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

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Job Number: 231877		LABORATORY TEST RESULTS					Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis					
Customer Sample ID: LL7sw-011-SW Date Sampled.....: 11/10/2004 Time Sampled.....: 14:00 Sample Matrix.....: Water			Laboratory Sample ID: 231877-25 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
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	1.2		0.057	0.20	1	mg/L	135258		11/23/04 1002	kd

* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7sw-011-SW			Laboratory Sample ID: 231877-25									
Date Sampled: 11/10/2004			Date Received: 11/11/2004									
Time Sampled: 14:00			Time Received: 10:00									
Sample Matrix: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA) Antimony	3.3	B		2.5	7.5	1	ug/L	134864		11/18/04 1934	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	134620		11/17/04 1105	daj
7421	Lead (GFAA) Lead	7.1			0.79	3.0	1	ug/L	134494		11/16/04 1152	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	134623		11/17/04 0728	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1649	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	51	B		24	150	1	ug/L	134566		11/16/04 2222	tds
	Barium	13			1.5	10	1	ug/L	134566		11/16/04 2222	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2222	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2222	tds
	Calcium	6400			24	100	1	ug/L	134566		11/16/04 2222	tds
	Chromium	2.1	B		1.5	10	1	ug/L	134566		11/16/04 2222	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134566		11/16/04 2222	tds
	Copper	8.2	B		1.6	10	1	ug/L	134566		11/16/04 2222	tds
	Iron	2600			40	120	1	ug/L	134566		11/16/04 2222	tds
	Magnesium	650			12	100	1	ug/L	134566		11/16/04 2222	tds
	Manganese	32			0.71	10	1	ug/L	134566		11/16/04 2222	tds
	Nickel	10	U		1.9	10	1	ug/L	134566		11/16/04 2222	tds
	Potassium	9300			110	500	1	ug/L	134566		11/16/04 2222	tds

* In Description = Dry Wgt.

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Job Number: 231877

LABORATORY TEST RESULTS

Date: 11/29/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RWAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7sw-011-SW
 Date Sampled.....: 11/10/2004
 Time Sampled.....: 14:00
 Sample Matrix.....: Water

Laboratory Sample ID: 231877-25
 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
	Selenium	15		U	5.0	15	1	ug/L	134566		11/16/04 2222	tds
	Silver	10		U	3.1	10	1	ug/L	134566		11/16/04 2222	tds
	Sodium	2900			500	1500	1	ug/L	134566		11/16/04 2222	tds
	Vanadium	10		U	2.1	10	1	ug/L	134566		11/16/04 2222	tds
	Zinc	230			10	30	1	ug/L	134566		11/16/04 2222	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE BYAAP 14 AOCES

ATTN: Eric Ellis

Customer Sample ID: LL7sw-011-SW
 Date Sampled.....: 11/10/2004
 Time Sampled.....: 14:00
 Sample Matrix.....: Water

Laboratory Sample ID: 231877-25
 Date Received.....: 11/11/2004
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	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	136156		11/17/04 0252	kdL
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	136156		11/17/04 0252	kdL
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136156		11/17/04 0252	kdL
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136156		11/17/04 0252	kdL
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	136156		11/17/04 0252	kdL
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136156		11/17/04 0252	kdL

* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-011-SW Date Sampled.....: 11/10/2004 Time Sampled.....: 14:00 Sample Matrix.....: Water			Laboratory Sample ID: 231877-25 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
8082	PCB Analysis											
	Aroclor 1016	0.59		U	0.18	0.59	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1221	1.3		U	0.41	1.3	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1232	1.3		U	0.34	1.3	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1242	1.3		U	0.42	1.3	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1248	1.5		U	0.47	1.5	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1254	1.3		U	0.34	1.3	1.00000	ug/L	135578		11/20/04 0634	bjt
	Aroclor 1260	0.59		U	0.17	0.59	1.00000	ug/L	135578		11/20/04 0634	bjt

* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/20/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE R/V MAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7sw-011-SW			Laboratory Sample ID: 231877-25									
Date Sampled.....: 11/10/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 14:00			Time Received.....: 10:00									
Sample Matrix.....: Water												
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 2027	jdj
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,1-Dichloroethane	1.0	U	*	0.12	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Acetone	10	U		1.8	10	1.00000	ug/L	134749		11/17/04 2027	jdj
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134749		11/17/04 2027	jdj
	trans-1,2-Dichloroethane	1.0	U		0.14	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	cis-1,2-Dichloroethane	9.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134749		11/17/04 2027	jdj
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Trichloroethane	11	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134749		11/17/04 2027	jdj
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134749		11/17/04 2027	jdj
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134749		11/17/04 2027	jdj

* In Description = Dry Wgt.

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