



# Appendix G

## Soil Boring Analytical Data

Landfill North of Winklepeck Burning Grounds  
Anchor Test Area

STL Chicago is part of Severn Trent Laboratories, Inc.

**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNMsb-053-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-21  
 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
Method	% Solids Determination											
	% Solids, Solid	86.9			0.10	0.10	1	%	134212		11/13/04 1200	daj
	% Moisture, Solid	13.1			0.10	0.10	1	%	134212		11/13/04 1200	daj
7041	Antimony (GFAA) Antimony, Solid*	0.47		B	0.44	1.4	1	mg/Kg	134864		11/18/04 2112	daj
7841	Thallium (GFAA) Thallium, Solid*	0.28		B	0.19	0.60	1	mg/Kg	134716		11/17/04 2115	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0049	0.019	1	mg/Kg	135018		11/18/04 1619	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.6	16	1	mg/Kg	135366		11/23/04 1645	tds
	Barium, Solid*	67			0.16	1.0	1	mg/Kg	135030		11/20/04 1654	Lmr
	Arsenic, Solid*	13			0.52	1.5	1	mg/Kg	135030		11/20/04 1654	Lmr
	Beryllium, Solid*	0.75			0.045	0.41	1	mg/Kg	135030		11/20/04 1654	Lmr
	Cadmium, Solid*	0.26		U	0.082	0.26	1	mg/Kg	135030		11/20/04 1654	Lmr
	Calcium, Solid*	2100			3.2	10	1	mg/Kg	135030		11/20/04 1654	Lmr
	Chromium, Solid*	18			0.23	1.0	1	mg/Kg	135030		11/20/04 1654	Lmr
	Cobalt, Solid*	13			0.14	0.51	1	mg/Kg	135030		11/20/04 1654	Lmr
	Copper, Solid*	21			0.99	3.3	1	mg/Kg	135366		11/23/04 1645	tds
	Iron, Solid*	25000			3.1	10	1	mg/Kg	135030		11/20/04 1654	Lmr
	Magnesium, Solid*	3900			1.7	10	1	mg/Kg	135030		11/20/04 1654	Lmr
	Manganese, Solid*	490			0.13	1.0	1	mg/Kg	135030		11/20/04 1654	Lmr
	Nickel, Solid*	31			0.26	1.0	1	mg/Kg	135030		11/20/04 1654	Lmr
Lead, Solid*	12			0.44	1.5	1	mg/Kg	135030		11/20/04 1654	Lmr	
Potassium, Solid*	1800			15	55	1	mg/Kg	135366		11/23/04 1645	tds	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LNWSb-053-SD Date Sampled.....: 11/09/2004 Time Sampled.....: 12:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-21 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, Solid*	0.56	B		0.44	1.6	1	mg/Kg	135366		11/23/04 1645	tds
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	135030		11/20/04 1654	lmr
	Sodium, Solid*	410			95	330	1	mg/Kg	135366		11/23/04 1645	tds
	Vanadium, Solid*	18			0.22	1.0	1	mg/Kg	135030		11/20/04 1654	lmr
	Zinc, Solid*	61			0.41	2.1	1	mg/Kg	135030		11/20/04 1654	lmr

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAMP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNwsb-053-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-21  
 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
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		8.2	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	77	U		10	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzyl alcohol, 3541 Low Solid*	770	U		85	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	77	U		12	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	77	U		15	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.9	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	77	U		14	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		9.9	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	77	U		10	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzoic acid, 3541 Low Solid*	770	U	*	230	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Isophorone, 3541 Low Solid*	190	U		23	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		19	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.7	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Chloroaniline, 3541 Low Solid*	770	U		62	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		51	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		350	1100	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk

\* In Description = Dry Wgt.

Page 42

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14-ADCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-053-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-21  
 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		40	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	3-Nitroaniline, 3541 Low Solid*	770	U		160	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Dimethyl phthalate, 3541 Low Solid*	77	U		10	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	770	U	*	120	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Dibenzofuran, 3541 Low Solid*	77	U		10	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Nitrophenol, 3541 Low Solid*	770	U		240	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Nitroaniline, 3541 Low Solid*	770	U		52	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Diethyl phthalate, 3541 Low Solid*	77	U		11	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	770	U		190	770	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Anthracene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Carbazole, 3541 Low Solid*	190	U		14	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	77	U		12	77	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk

\* 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 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-053-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-21  
 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U	17	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U	37	190	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	380	U	12	380	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	38	U	10	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	38	U	11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzo(a)pyrene, 3541 Low Solid*	38	U	11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38	U	12	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38	U	11	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	38	U	13	38	1.00000	ug/Kg	135942		11/30/04 2323	dpk
Method	% Solids Determination										
	% Solids, Solid	86.9		0.10	0.10	1	%	134212		11/13/04 1200	daj
	% Moisture, Solid	13.1		0.10	0.10	1	%	134212		11/13/04 1200	daj

\* In Description = Dry Wgt.

Page 44

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-053-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 12:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-21 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
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/18/04 0036	bdw

\* In Description = Dry Wgt.

Page 21

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LABORATORY TEST RESULTS												
Job Number: 231877					Date: 11/29/2004							
CUSTOMER: HKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LNWsb-054-S0 Date Sampled: 11/09/2004 Time Sampled: 12:30 Sample Matrix: Soil					Laboratory Sample ID: 231877-16 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
Method	% Solids Determination	86.0			0.10	0.10	1	%	134212		11/13/04 1149	daj
	% Solids, Solid	14.0			0.10	0.10	1	%	134212		11/13/04 1149	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	134864		11/19/04 0426	daj
7841	Thallium (GFAA) Thallium, Solid*	0.30		B	0.21	0.67	1	mg/Kg	134716		11/18/04 0422	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.0092		B	0.0050	0.019	1	mg/Kg	135018		11/18/04 1608	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.7	17	1	mg/Kg	135366		11/23/04 1453	tds
	Barium, Solid*	79			0.18	1.1	1	mg/Kg	135030		11/20/04 1545	lmr
	Arsenic, Solid*	13			0.57	1.7	1	mg/Kg	135030		11/20/04 1545	lmr
	Beryllium, Solid*	0.77			0.049	0.45	1	mg/Kg	135030		11/20/04 1545	lmr
	Cadmium, Solid*	0.28		U	0.090	0.28	1	mg/Kg	135030		11/20/04 1545	lmr
	Calcium, Solid*	4500			3.5	11	1	mg/Kg	135030		11/20/04 1545	lmr
	Chromium, Solid*	17			0.25	1.1	1	mg/Kg	135030		11/20/04 1545	lmr
	Cobalt, Solid*	12			0.16	0.56	1	mg/Kg	135030		11/20/04 1545	lmr
	Copper, Solid*	19			1.0	3.4	1	mg/Kg	135060		11/22/04 0039	tds
	Iron, Solid*	26000			3.4	11	1	mg/Kg	135030		11/20/04 1545	lmr
	Magnesium, Solid*	4300			1.9	11	1	mg/Kg	135030		11/20/04 1545	lmr
	Manganese, Solid*	380			0.15	1.1	1	mg/Kg	135030		11/20/04 1545	lmr
	Nickel, Solid*	32			0.28	1.1	1	mg/Kg	135030		11/20/04 1545	lmr
	Lead, Solid*	15			0.48	1.7	1	mg/Kg	135030		11/20/04 1545	lmr
Potassium, Solid*	1300			15	56	1	mg/Kg	135060		11/22/04 0039	tds	

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS												
Job Number: 231877					Date: 11/29/2004							
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LNWSb-054-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 12:30 Sample Matrix.....: Soil					Laboratory Sample ID: 231877-16 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, Solid*	1.7	U		0.45	1.7	1	mg/Kg	135030		11/20/04 1545	Lmr
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135030		11/20/04 1545	Lmr
	Sodium, Solid*	340	U		97	340	1	mg/Kg	135060		11/22/04 0039	tds
	Vanadium, Solid*	18			0.24	1.1	1	mg/Kg	135030		11/20/04 1545	Lmr
	Zinc, Solid*	61			0.45	2.2	1	mg/Kg	135030		11/20/04 1545	Lmr

\* 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 16 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-054-SD  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-16  
 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
8270C	Semivolatle Organics											
	Phenol, 3541 Low Solid*	190	U		8.1	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U		84	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U		15	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.8	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U		14	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		9.8	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzoic acid, 3541 Low Solid*	760	U	*	220	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U		61	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		51	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		350	1100	1.00000	ug/Kg	135942		11/30/04 2123	dpk	
2-Methylnaphthalene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk	
2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk	
2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk	

\* 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 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWSB-054-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 12:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-16  
 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		39	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	3-Nitroaniline, 3541 Low Solid*	760	U		160	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Dimethyl phthalate, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760	U	*	120	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Dibenzofuran, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Nitrophenol, 3541 Low Solid*	760	U		240	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Nitroaniline, 3541 Low Solid*	760	U		51	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Diethyl phthalate, 3541 Low Solid*	76	U		11	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	760	U		190	760	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Anthracene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzof(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk

\* 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 AOCS				ATTN: Eric Ellis					
Customer Sample ID: LNWsb-054-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 12:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-16 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190		U	17							
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190		U	37	190	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	380		U	12	380	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	38		U	10	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzo(a)pyrene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	38		U	13	38	1.00000	ug/Kg	135942		11/30/04 2123	dpk
Method	% Solids Determination											
	% Solids, Solid	86.0			0.10	0.10	1	%	134212		11/13/04 1149	daj
	% Moisture, Solid	14.0			0.10	0.10	1	%	134212		11/13/04 1149	daj

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/24/2004

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

Customer Sample ID: LNWsb-054-S0 Laboratory Sample ID: 231877-16  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 12:30 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 2153	bdw

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNWSb-055-S0 Laboratory Sample ID: 231877-18  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 13:30 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.3			0.10	0.10	1	%	134212		11/13/04 1154	daj
	% Moisture, Solid	12.7			0.10	0.10	1	%	134212		11/13/04 1154	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.45	1.4	1	mg/Kg	134864		11/19/04 0502	daj
7841	Thallium (GFAA) Thallium, Solid*	0.22		B	0.19	0.61	1	mg/Kg	134716		11/18/04 0448	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0049	0.019	1	mg/Kg	135018		11/18/04 1612	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.4	15	1	mg/Kg	135366		11/23/04 1529	tds
	Barium, Solid*	57			0.16	1.0	1	mg/Kg	135030		11/20/04 1557	Lmr
	Arsenic, Solid*	10			0.52	1.5	1	mg/Kg	135030		11/20/04 1557	Lmr
	Beryllium, Solid*	0.66			0.045	0.41	1	mg/Kg	135030		11/20/04 1557	Lmc
	Cadmium, Solid*	0.25		U	0.081	0.25	1	mg/Kg	135030		11/20/04 1557	Lmr
	Calcium, Solid*	9300			3.2	10	1	mg/Kg	135030		11/20/04 1557	Lmr
	Chromium, Solid*	16			0.22	1.0	1	mg/Kg	135030		11/20/04 1557	Lmr
	Cobalt, Solid*	9.8			0.14	0.51	1	mg/Kg	135030		11/20/04 1557	Lmr
	Copper, Solid*	16			0.92	3.1	1	mg/Kg	135060		11/22/04 0051	tds
	Iron, Solid*	22000			3.1	10	1	mg/Kg	135030		11/20/04 1557	Lmr
	Magnesium, Solid*	5700			1.7	10	1	mg/Kg	135030		11/20/04 1557	Lmr
	Manganese, Solid*	300			0.13	1.0	1	mg/Kg	135030		11/20/04 1557	Lmr
	Nickel, Solid*	24			0.25	1.0	1	mg/Kg	135030		11/20/04 1557	Lmr
	Lead, Solid*	9.7			0.44	1.5	1	mg/Kg	135030		11/20/04 1557	Lmr
Potassium, Solid*	1400			14	51	1	mg/Kg	135060		11/22/04 0051	tds	

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: NKK Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-055-S0			Laboratory Sample ID: 231877-18									
Date Sampled.....: 11/09/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 13:30			Time Received.....: 10:00									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.5	U		0.41	1.5	1	mg/Kg	135030		11/20/04 1557	lmr
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	135030		11/20/04 1557	lmr
	Sodium, Solid*	310	U		88	310	1	mg/Kg	135060		11/22/04 0051	tds
	Vanadium, Solid*	16			0.21	1.0	1	mg/Kg	135030		11/20/04 1557	lmr
	Zinc, Solid*	58			0.41	2.0	1	mg/Kg	135030		11/20/04 1557	lmr

\* In Description = Dry Wgt.

Page 35

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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: LNWsb-055-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 13:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-18  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	RELUCTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatle Organics											
	Phenol, 3541 Low Solid*	190	U		8.1	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U		84	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U		15	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.8	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U		14	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		9.8	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzoic acid, 3541 Low Solid*	760	U	*	220	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U		61	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		51	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		350	1100	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk

\* In Description = Dry Wgt.



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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: HKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWsb-055-SO			Laboratory Sample ID: 231877-18			Date Sampled: 11/09/2004			Date Received: 11/11/2004			
Time Sampled: 13:30			Time Received: 10:00			Sample Matrix: Soil						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		39	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	3-Nitroaniline, 3541 Low Solid*	760	U		160	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Dimethyl phthalate, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760	U	*	120	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Dibenzofuran, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Nitrophenol, 3541 Low Solid*	760	U		240	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Nitroaniline, 3541 Low Solid*	760	U		51	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Diethyl phthalate, 3541 Low Solid*	76	U		11	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	760	U		190	760	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Anthracene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk

\* In Description = Dry Wgt.

Page 34

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Job Number: 231877		LABORATORY TEST RESULTS							Date: 12/02/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-055-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 13:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-18 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190		U	17	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190		U	36	190	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	380		U	12	380	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	38		U	10	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzo(a)pyrene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	38		U	13	38	1.00000	ug/Kg	135942		11/30/04 2211	dpk
Method	% Solids Determination											
	% Solids, Solid	87.3			0.10	0.10	1	%	134212		11/13/04 1154	daj
	% Moisture, Solid	12.7			0.10	0.10	1	%	134212		11/13/04 1154	daj

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/24/2004

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

Customer Sample ID: LMWsb-055-50  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 13:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-18  
 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
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 2258	bdw

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNWSb-056-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-19  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	85.3			0.10	0.10	1	%	134212		11/13/04 1156	daj
	% Solids, Solid	14.7			0.10	0.10	1	%	134212		11/13/04 1156	daj
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	134864		11/19/04 0514	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	134716		11/18/04 0513	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0050	0.019	1	mg/Kg	135018		11/18/04 1615	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.7	17	1	mg/Kg	135366		11/23/04 1535	tds
	Barium, Solid*	57			0.18	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Arsenic, Solid*	13			0.57	1.7	1	mg/Kg	135030		11/20/04 1603	Lmr
	Beryllium, Solid*	0.71			0.049	0.45	1	mg/Kg	135030		11/20/04 1603	Lmr
	Cadmium, Solid*	0.11		B	0.090	0.28	1	mg/Kg	135030		11/20/04 1603	Lmr
	Calcium, Solid*	11000			3.5	11	1	mg/Kg	135030		11/20/04 1603	Lmr
	Chromium, Solid*	16			0.25	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Cobalt, Solid*	12			0.16	0.56	1	mg/Kg	135030		11/20/04 1603	Lmr
	Copper, Solid*	18			1.0	3.4	1	mg/Kg	135060		11/22/04 0057	tds
	Iron, Solid*	25000			3.4	11	1	mg/Kg	135030		11/20/04 1603	Lmr
	Magnesium, Solid*	4900			1.9	11	1	mg/Kg	135030		11/20/04 1603	Lmr
	Manganese, Solid*	360			0.15	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Nickel, Solid*	26			0.28	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Lead, Solid*	11			0.48	1.7	1	mg/Kg	135030		11/20/04 1603	Lmr
	Potassium, Solid*	1400			15	56	1	mg/Kg	135060		11/22/04 0057	tds

\* 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: LNWsb-056-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-19 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, Solid*	0.57	B		0.45	1.7	1	mg/Kg	135030		11/20/04 1603	Lmr
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Sodium, Solid*	340	U		97	340	1	mg/Kg	135060		11/22/04 0057	tds
	Vanadium, Solid*	17			0.24	1.1	1	mg/Kg	135030		11/20/04 1603	Lmr
	Zinc, Solid*	60			0.45	2.2	1	mg/Kg	135030		11/20/04 1603	Lmr

\* In Description = Dry Wgt.

Page 37

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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: LNWsb-056-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-19 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
8270C	Semivolatle Organics											
	Phenol, 3541 Low Solid*	190	U		8.3	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzyl alcohol, 3541 Low Solid*	780	U		86	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		19	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	78	U		15	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	78	U		14	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Nitrobenzene, 3541 Low Solid*	39	U		10	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzoic acid, 3541 Low Solid*	780	U	*	230	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Isophorone, 3541 Low Solid*	190	U		23	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	390	U		19	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Naphthalene, 3541 Low Solid*	39	U		9.8	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	390	U		18	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Chloroaniline, 3541 Low Solid*	780	U		63	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		44	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	390	U		52	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		360	1200	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Methylnaphthalene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk

\* In Description = Dry Wgt.

Page 36

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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: LNwsb-056-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-19 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	390	U		40	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2-Nitrophenol, 3541 Low Solid*	390	U		17	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	3-Nitroaniline, 3541 Low Solid*	780	U		160	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Dimethyl phthalate, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	780	U	*	120	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Acenaphthylene, 3541 Low Solid*	39	U		9.7	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Acenaphthene, 3541 Low Solid*	39	U		9.7	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Dibenzofuran, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Nitrophenol, 3541 Low Solid*	780	U		250	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Fluorene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Nitroaniline, 3541 Low Solid*	780	U		52	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Hexachlorobenzene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Diethyl phthalate, 3541 Low Solid*	78	U		11	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Pentachlorophenol, 3541 Low Solid*	390	U		130	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	780	U		200	780	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Phenanthrene, 3541 Low Solid*	58	U		18	58	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Anthracene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Carbazole, 3541 Low Solid*	190	U		14	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Fluoranthene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Pyrene, 3541 Low Solid*	58	U		14	58	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzo(a)anthracene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Chrysene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk

\* In Description = Dry Wgt.

Page 37

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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: LNWsb-056-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-19 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190		U	17	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190		U	37	190	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	390		U	12	390	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	39		U	10	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	39		U	11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzo(a)pyrene, 3541 Low Solid*	39		U	11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	39		U	12	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	39		U	11	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	39		U	13	39	1.00000	ug/Kg	135942		11/30/04 2235	dpk
Method	% Solids Determination											
	% Solids, Solid	85.3			0.10	0.10	1	%	134212		11/13/04 1156	daj
	% Moisture, Solid	14.7			0.10	0.10	1	%	134212		11/13/04 1156	daj

\* In Description = Dry Wgt.

Page 38



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LABORATORY TEST RESULTS		Job Number: 231877		Date: 11/24/2004								
CUSTOMER: MKM Engineers, Inc.		PROJECT: USACE RVAAP 14 AOCs		ATTN: Eric Ellis								
Customer Sample ID: LNWSb-056-S0		Laboratory Sample ID: 231877-19		Date Received: 11/11/2004								
Date Sampled: 11/09/2004		Date Received: 11/11/2004		Time Received: 10:00								
Time Sampled: 14:00												
Sample Matrix: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 2331	bdw

\* In Description = Dry Wgt.

Page 19

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNWSb-056-DUP  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-17  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.2			0.10	0.10	1	%	134212		11/13/04 1151	daj
	% Moisture, Solid	13.8			0.10	0.10	1	%	134212		11/13/04 1151	daj
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.51	1.6	1	mg/Kg	134864		11/19/04 0450	daj
7841	Thallium (GFAA) Thallium, Solid*	0.70		U	0.22	0.70	1	mg/Kg	134716		11/18/04 0435	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0050	0.019	1	mg/Kg	135018		11/18/04 1610	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.7	17	1	mg/Kg	135366		11/23/04 1459	tds
	Barium, Solid*	87			0.18	1.1	1	mg/Kg	135030		11/20/04 1551	lmr
	Arsenic, Solid*	14			0.58	1.7	1	mg/Kg	135030		11/20/04 1551	lmr
	Beryllium, Solid*	0.93			0.050	0.45	1	mg/Kg	135030		11/20/04 1551	lmr
	Cadmium, Solid*	0.20		B	0.091	0.28	1	mg/Kg	135030		11/20/04 1551	lmr
	Calcium, Solid*	3300			3.5	11	1	mg/Kg	135030		11/20/04 1551	lmr
	Chromium, Solid*	16			0.25	1.1	1	mg/Kg	135030		11/20/04 1551	lmr
	Cobalt, Solid*	12			0.16	0.57	1	mg/Kg	135030		11/20/04 1551	lmr
	Copper, Solid*	18			1.0	3.4	1	mg/Kg	135060		11/22/04 0045	tds
	Iron, Solid*	26000			3.4	11	1	mg/Kg	135030		11/20/04 1551	lmr
	Magnesium, Solid*	3700			1.9	11	1	mg/Kg	135030		11/20/04 1551	lmr
	Manganese, Solid*	420			0.15	1.1	1	mg/Kg	135030		11/20/04 1551	lmr
	Nickel, Solid*	33			0.28	1.1	1	mg/Kg	135030		11/20/04 1551	lmr
	Lead, Solid*	10			0.49	1.7	1	mg/Kg	135030		11/20/04 1551	lmr
	Potassium, Solid*	1200			16	57	1	mg/Kg	135060		11/22/04 0045	tds

\* 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: LNWSb-056-DUP			Laboratory Sample ID: 231877-17									
Date Sampled.....: 11/09/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 14:00			Time Received.....: 10:00									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.51	B		0.45	1.7	f	mg/Kg	135030		11/20/04 1551	Lmr
	Silver, Solid*	1.1	U		0.35	1.1	f	mg/Kg	135030		11/20/04 1551	Lmr
	Sodium, Solid*	340	U		98	340	f	mg/Kg	135060		11/22/04 0045	tds
	Vanadium, Solid*	17			0.24	1.1	f	mg/Kg	135030		11/20/04 1551	Lmr
	Zinc, Solid*	62			0.45	2.3	f	mg/Kg	135030		11/20/04 1551	Lmr

\* In Description = Dry Wgt.

Page 33

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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: LNWeb-056-DUP  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-17  
 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
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		8.2	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzyl alcohol, 3541 Low Solid*	780	U		85	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	78	U		15	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	78	U		14	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzoic acid, 3541 Low Solid*	780	U	*	230	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Isophorone, 3541 Low Solid*	190	U		23	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		19	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.7	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Chloroaniline, 3541 Low Solid*	780	U		62	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		52	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		350	1200	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk

\* 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: LNWsb-056-DUP  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-17  
 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		40	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	3-Nitroaniline, 3541 Low Solid*	780	U		160	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Dimethyl phthalate, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	780	U	*	120	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Dibenzofuran, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Nitrophenol, 3541 Low Solid*	780	U		250	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Nitroaniline, 3541 Low Solid*	780	U		52	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Diethyl phthalate, 3541 Low Solid*	78	U		11	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	780	U		200	780	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Phenanthrene, 3541 Low Solid*	58	U		17	58	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Anthracene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Carbazole, 3541 Low Solid*	190	U		14	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Pyrene, 3541 Low Solid*	58	U		14	58	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk

\* 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 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LNWsb-056-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-17 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U		37	190	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	380	U		12	380	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzo(a)pyrene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	135942		12/01/04 1628	dpk
Method	% Solids Determination											
	% Solids, Solid	86.2			0.10	0.10	1	%	134212		11/13/04 1151	daj
	% Moisture, Solid	13.8			0.10	0.10	1	%	134212		11/13/04 1151	daj

\* In Description = Dry Wgt.

Page 32

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LABORATORY TEST RESULTS												
Job Number: 231877								Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LNWsb-056-DUP Date Sampled: 11/09/2004 Time Sampled: 14:00 Sample Matrix: Soil						Laboratory Sample ID: 231877-17 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
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 2226	bdw

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNWSb-057-S0 Laboratory Sample ID: 231877-20  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 15:00 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.1			0.10	0.10	1	%	134212		11/13/04 1158	daj
	% Moisture, Solid	13.9			0.10	0.10	1	%	134212		11/13/04 1158	daj
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	134864		11/19/04 0527	daj
7841	Thallium (GFAA) Thallium, Solid*	0.62		U	0.20	0.62	1	mg/Kg	134716		11/18/04 0525	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0050	0.019	1	mg/Kg	135018		11/18/04 1617	gak
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9800			2.6	16	1	mg/Kg	135366		11/23/04 1541	tds
	Barium, Solid*	47			0.17	1.1	1	mg/Kg	135030		11/20/04 1610	Lmr
	Arsenic, Solid*	15			0.55	1.6	1	mg/Kg	135030		11/20/04 1610	Lmr
	Beryllium, Solid*	0.68			0.048	0.43	1	mg/Kg	135030		11/20/04 1610	Lmr
	Cadmium, Solid*	0.15		B	0.087	0.27	1	mg/Kg	135030		11/20/04 1610	Lmr
	Calcium, Solid*	11000			3.4	11	1	mg/Kg	135030		11/20/04 1610	Lmr
	Chromium, Solid*	16			0.24	1.1	1	mg/Kg	135030		11/20/04 1610	Lmr
	Cobalt, Solid*	10			0.15	0.54	1	mg/Kg	135030		11/20/04 1610	Lmr
	Copper, Solid*	18			0.98	3.3	1	mg/Kg	135060		11/22/04 0104	tds
	Iron, Solid*	28000			3.3	11	1	mg/Kg	135030		11/20/04 1610	Lmr
	Magnesium, Solid*	4600			1.8	11	1	mg/Kg	135030		11/20/04 1610	Lmr
	Manganese, Solid*	390			0.14	1.1	1	mg/Kg	135030		11/20/04 1610	Lmr
	Nickel, Solid*	26			0.27	1.1	1	mg/Kg	135030		11/20/04 1610	Lmr
	Lead, Solid*	12			0.47	1.6	1	mg/Kg	135030		11/20/04 1610	Lmr
	Potassium, Solid*	1300			15	54	1	mg/Kg	135060		11/22/04 0104	tds

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231877 Date: 11/29/2004

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

Customer Sample ID: LNWSb-057-S0 Laboratory Sample ID: 231877-20  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 15:00 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.53	B		0.43	1.6	1	mg/Kg	135030		11/20/04 1610	lmr
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135030		11/20/04 1610	lmr
	Sodium, Solid*	330	U		94	330	1	mg/Kg	135060		11/22/04 0104	tds
	Vanadium, Solid*	17			0.23	1.1	1	mg/Kg	135030		11/20/04 1610	lmr
	Zinc, Solid*	60			0.43	2.2	1	mg/Kg	135030		11/20/04 1610	lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

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

Customer Sample ID: LNWSb-057-S0 Laboratory Sample ID: 231877-20  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 15:00 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
B270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		8.2	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Benzyl alcohol, 3541 Low Solid*	780	U		85	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	78	U		15	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	78	U		14	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Benzoic acid, 3541 Low Solid*	780	U	*	230	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Isophorone, 3541 Low Solid*	190	U		23	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		19	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.7	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Chloroaniline, 3541 Low Solid*	780	U		62	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		52	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		350	1200	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-057-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-20  
 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		40	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	3-Nitroaniline, 3541 Low Solid*	780	U		160	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Dimethyl phthalate, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	780	U	*	120	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Dibenzofuran, 3541 Low Solid*	78	U		10	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Nitrophenol, 3541 Low Solid*	780	U		250	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Nitroaniline, 3541 Low Solid*	780	U		52	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Diethyl phthalate, 3541 Low Solid*	78	U		11	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	780	U		200	780	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Phenanthrene, 3541 Low Solid*	58	U		18	58	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Anthracene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Carbazole, 3541 Low Solid*	190	U		14	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Pyrene, 3541 Low Solid*	58	U		14	58	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	78	U		12	78	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpk

\* In Description = Dry Wgt.

Page 40

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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: LNWSb-057-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-20  
 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U		37	190	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Di-n-octyl phthalate, 3541 Low Solid*	380	U		12	380	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Benzo(b)fluoranthene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Benzo(k)fluoranthene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Benzo(a)pyrene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
	Benzo(ghi)perylene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	135942		11/30/04 2259	dpc
Method	% Solids Determination											
	% Solids, Solid	86.1			0.10	0.10	1	%	134212		11/13/04 1158	daj
	% Moisture, Solid	13.9			0.10	0.10	1	%	134212		11/13/04 1158	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS							Date: 11/24/2004		
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RMAAP 14 AOC5				ATTN: Eric Ellis			
Customer Sample ID: LNWSb-057-S0 Date Sampled: 11/09/2004 Time Sampled: 15:00 Sample Matrix: Soil				Laboratory Sample ID: 231877-20 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
8330	Explosives by 8330 (HPLC)										
	HMX, Solid	0.20	U	0.055	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	RDX, Solid	0.20	U	0.062	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	1,3,5-Trinitrobenzene, Solid	0.098	U	0.032	0.098	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	1,3-Dinitrobenzene, Solid	0.098	U	0.023	0.098	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	Nitrobenzene, Solid	0.098	U	0.021	0.098	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	2,4,6-TNT, Solid	0.098	U	0.023	0.098	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	Tetryl, Solid	0.39	U	0.12	0.39	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	2,4-Dinitrotoluene, Solid	0.098	U	0.025	0.098	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	2,6-Dinitrotoluene, Solid	0.20	U	0.048	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U	0.045	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U	0.093	0.29	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	2-Nitrotoluene, Solid	0.20	U	0.047	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	4-Nitrotoluene, Solid	0.20	U	0.049	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw
	3-Nitrotoluene, Solid	0.20	U	0.052	0.20	1.00000	mg/Kg	135440		11/18/04 0003	bdw

\* 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: LNWSb-058-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:30 Sample Matrix.....: Soil		Laboratory Sample ID: 231877-12 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
Method	% Solids Determination	87.7			0.10	0.10	1	%	134212		11/13/04 1141	daj
	% Solids, Solid				0.10	0.10	1	%	134212		11/13/04 1141	daj
	% Moisture, Solid	12.3										
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	134864		11/19/04 0324	daj
7841	Thallium (GFAA) Thallium, Solid*	0.65		U	0.21	0.65	1	mg/Kg	134716		11/18/04 0320	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0049	0.019	1	mg/Kg	135018		11/18/04 1556	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8800			2.7	17	1	mg/Kg	135060		11/21/04 2314	tds
	Barium, Solid*	49			0.18	1.1	1	mg/Kg	135030		11/20/04 1418	lmr
	Arsenic, Solid*	11			0.57	1.7	1	mg/Kg	135030		11/20/04 1418	lmr
	Beryllium, Solid*	0.65			0.050	0.45	1	mg/Kg	135030		11/20/04 1418	lmr
	Cadmium, Solid*	0.28		U	0.090	0.28	1	mg/Kg	135030		11/20/04 1418	lmr
	Calcium, Solid*	3400			3.5	11	1	mg/Kg	135030		11/20/04 1418	lmr
	Chromium, Solid*	15			0.25	1.1	1	mg/Kg	135030		11/20/04 1418	lmr
	Cobalt, Solid*	9.6			0.16	0.56	1	mg/Kg	135030		11/20/04 1418	lmr
	Copper, Solid*	20			1.0	3.4	1	mg/Kg	135060		11/21/04 2314	tds
	Iron, Solid*	23000			3.4	11	1	mg/Kg	135030		11/20/04 1418	lmr
	Magnesium, Solid*	3500			1.9	11	1	mg/Kg	135030		11/20/04 1418	lmr
	Manganese, Solid*	280			0.15	1.1	1	mg/Kg	135030		11/20/04 1418	lmr
	Nickel, Solid*	24			0.28	1.1	1	mg/Kg	135030		11/20/04 1418	lmr
	Lead, Solid*	9.8			0.48	1.7	1	mg/Kg	135030		11/20/04 1418	lmr
Potassium, Solid*	1500			16	56	1	mg/Kg	135060		11/21/04 2314	tds	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877					Date: 11/29/2004							
CUSTOMER: MCM Engineers, Inc.				PROJECT: USACE RVAAP 14 ACOS				ATTN: Eric Ellis				
Customer Sample ID: LNWSb-058-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:30 Sample Matrix.....: Soil					Laboratory Sample ID: 231877-12 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, Solid*	0.47		B	0.45	1.7	1	mg/Kg	135030		11/20/04 1418	Lmr
	Silver, Solid*	1.1		U	0.35	1.1	1	mg/Kg	135030		11/20/04 1418	Lmr
	Sodium, Solid*	340		U	98	340	1	mg/Kg	135060		11/21/04 2314	tds
	Vanadium, Solid*	15			0.24	1.1	1	mg/Kg	135030		11/20/04 1418	Lmr
	Zinc, Solid*	55			0.45	2.3	1	mg/Kg	135030		11/20/04 1418	Lmr

\* 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 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-058-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-12  
 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
8270C	Semivolatle Organics											
	Phenol, 3541 Low Solid*	190	U		7.9	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	75	U		9.9	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzyl alcohol, 3541 Low Solid*	750	U		82	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	75	U		12	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	75	U		15	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.6	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	75	U		13	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Nitrobenzene, 3541 Low Solid*	37	U		9.6	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	75	U		9.8	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzoic acid, 3541 Low Solid*	750	U	*	220	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	370	U		18	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Naphthalene, 3541 Low Solid*	37	U		9.3	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	370	U		17	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Chloroaniline, 3541 Low Solid*	750	U		60	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		42	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	370	U		50	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		340	1100	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Methylnaphthalene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

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

Customer Sample ID: LNwsb-058-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-12  
 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
	4-Chloro-3-methylphenol, 3541 Low Solid*	370	U		39	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2-Nitrophenol, 3541 Low Solid*	370	U		16	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	3-Nitroaniline, 3541 Low Solid*	750	U		150	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Dimethyl phthalate, 3541 Low Solid*	75	U		9.9	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	750	U	*	120	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Acenaphthylene, 3541 Low Solid*	37	U		9.2	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Acenaphthene, 3541 Low Solid*	37	U		9.2	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Dibenzofuran, 3541 Low Solid*	75	U		9.8	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Nitrophenol, 3541 Low Solid*	750	U		240	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Fluorene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Nitroaniline, 3541 Low Solid*	750	U		50	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Hexachlorobenzene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Diethyl phthalate, 3541 Low Solid*	75	U		11	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Pentachlorophenol, 3541 Low Solid*	370	U		120	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	750	U		190	750	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Phenanthrene, 3541 Low Solid*	56	U		17	56	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Anthracene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Fluoranthene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Pyrene, 3541 Low Solid*	56	U		13	56	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	75	U		11	75	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzo(a)anthracene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Chrysene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk

\* 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 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-058-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-12 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
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U		36	190	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	370	U		12	370	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	37	U		9.9	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzo(a)pyrene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	135942		11/30/04 2035	dpk
Method	% Solids Determination											
	% Solids, Solid	87.7			0.10	0.10	1	%	134212		11/13/04 1141	daj
	% Moisture, Solid	12.3			0.10	0.10	1	%	134212		11/13/04 1141	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USAGE RYAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-058-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-12 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
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	2,4,6-TMT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 1236	bdw

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-059-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-23 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	% Solids Determination											
	% Solids, Solid	83.1		0.10	0.10	1	%	134487		11/16/04 1211	daj	
	% Moisture, Solid	16.9		0.10	0.10	1	%	134487		11/16/04 1211	daj	
7041	Antimony (GFAA) Antimony, Solid*	1.6	U	0.51	1.6	1	mg/Kg	135006		11/19/04 1855	daj	
7841	Thallium (GFAA) Thallium, Solid*	0.69	U	0.22	0.69	1	mg/Kg	135008		11/19/04 2246	daj	
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.015	B	0.0052	0.020	1	mg/Kg	135393		11/23/04 1651	gok	
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	7400		2.8	17	1	mg/Kg	135536		11/24/04 1714	tds	
	Barium, Solid*	23		0.18	1.2	1	mg/Kg	135536		11/24/04 1714	tds	
	Arsenic, Solid*	12		0.59	1.7	1	mg/Kg	135536		11/24/04 1714	tds	
	Beryllium, Solid*	0.47		0.051	0.46	1	mg/Kg	135536		11/24/04 1714	tds	
	Cadmium, Solid*	0.29	U	0.092	0.29	1	mg/Kg	135536		11/24/04 1714	tds	
	Calcium, Solid*	490		3.6	12	1	mg/Kg	135536		11/24/04 1714	tds	
	Chromium, Solid*	9.9		0.25	1.2	1	mg/Kg	135536		11/24/04 1714	tds	
	Cobalt, Solid*	8.8		0.16	0.58	1	mg/Kg	135536		11/24/04 1714	tds	
	Copper, Solid*	20		1.0	3.5	1	mg/Kg	135536		11/24/04 1714	tds	
	Iron, Solid*	20000		3.5	12	1	mg/Kg	135536		11/24/04 1714	tds	
	Magnesium, Solid*	1800		2.0	12	1	mg/Kg	135536		11/24/04 1714	tds	
	Manganese, Solid*	320		0.15	1.2	1	mg/Kg	135536		11/24/04 1714	tds	
	Nickel, Solid*	14		0.29	1.2	1	mg/Kg	135536		11/24/04 1714	tds	
	Lead, Solid*	11		0.49	1.7	1	mg/Kg	135536		11/24/04 1714	tds	
	Potassium, Solid*	730		16	58	1	mg/Kg	135536		11/24/04 1714	tds	

\* In Description = Dry Wgt.

Page 47

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 A055				ATTN: Eric Ellis					
Customer Sample ID: LNWsb-059-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-23 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MRL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.46	B		0.46	1.7	1	mg/Kg	135536		11/24/04 1714	tds
	Silver, Solid*	1.2	U		0.36	1.2	1	mg/Kg	135536		11/24/04 1714	tds
	Sodium, Solid*	320	B		100	350	1	mg/Kg	135536		11/24/04 1714	tds
	Vanadium, Solid*	13			0.24	1.2	1	mg/Kg	135536		11/24/04 1714	tds
	Zinc, Solid*	51			0.46	2.3	1	mg/Kg	135536		11/24/04 1714	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYANP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-059-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-23  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		8.0	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U		83	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U		15	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.7	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U		13	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Nitrobenzene, 3541 Low Solid*	37	U		9.7	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzoic acid, 3541 Low Solid*	760	U	*	220	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	370	U		18	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Naphthalene, 3541 Low Solid*	37	U		9.5	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	370	U		18	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U		61	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		42	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	370	U		51	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		350	1100	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Methylnaphthalene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk

\* In Description = Dry Wgt.

Page 32

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-059-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-23  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	370	U		39	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2-Nitrophenol, 3541 Low Solid*	370	U		17	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	3-Nitroaniline, 3541 Low Solid*	760	U		160	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Dimethyl phthalate, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760	U		120	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Acenaphthylene, 3541 Low Solid*	37	U		9.4	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Acenaphthene, 3541 Low Solid*	37	U		9.4	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Dibenzofuran, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Nitrophenol, 3541 Low Solid*	760	U		260	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Fluorene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Nitroaniline, 3541 Low Solid*	760	U		51	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Hexachlorobenzene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Diethyl phthalate, 3541 Low Solid*	76	U		11	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Pentachlorophenol, 3541 Low Solid*	370	U		130	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	760	U		190	760	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Anthracene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Fluoranthene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzo(a)anthracene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Chrysene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AGGS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-059-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-23 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	190		U	17	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190		U	36	190	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	370		U	12	370	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	37		U	10	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzo(a)pyrene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	37		U	12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	37		U	12	37	1.00000	ug/Kg	136309		11/29/04 1037	dpk
Method	% Solids Determination											
	% Solids, Solid	83.1			0.10	0.10	1	%	134487		11/16/04 1211	daj
	% Moisture, Solid	16.9			0.10	0.10	1	%	134487		11/16/04 1211	daj

\* In Description = Dry Wgt.



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Job Number: 231912		LABORATORY TEST RESULTS					Date: 11/30/2004					
CUSTOMER: MGI Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-059-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 09:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-23 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135657		11/20/04 1608	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135657		11/20/04 1608	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135657		11/20/04 1608	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135657		11/20/04 1608	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1608	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135657		11/20/04 1608	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135657		11/20/04 1608	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1608	san

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LMWsb-060-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-19  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DIGITIZATION	UNITS	BATCH	DY	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.2			0.10	0.10	1	%	134235		11/14/04 1956	cib
	% Moisture, Solid	12.8			0.10	0.10	1	%	134235		11/14/04 1956	cib
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.49	1.5	1	mg/Kg	135006		11/19/04 1636	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	135008		11/19/04 2041	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.021			0.0049	0.019	1	mg/Kg	135664		11/24/04 1521	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9600			2.6	16	1	mg/Kg	135536		11/24/04 1525	tds
	Barium, Solid*	46			0.17	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Arsenic, Solid*	12			0.55	1.6	1	mg/Kg	135536		11/24/04 1525	tds
	Beryllium, Solid*	0.65			0.047	0.43	1	mg/Kg	135536		11/24/04 1525	tds
	Cadmium, Solid*	0.27		U	0.086	0.27	1	mg/Kg	135536		11/24/04 1525	tds
	Calcium, Solid*	15000			3.3	11	1	mg/Kg	135536		11/24/04 1525	tds
	Chromium, Solid*	15			0.24	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Cobalt, Solid*	8.2			0.15	0.54	1	mg/Kg	135536		11/24/04 1525	tds
	Copper, Solid*	20			0.97	3.2	1	mg/Kg	135536		11/24/04 1525	tds
	Iron, Solid*	23000			3.2	11	1	mg/Kg	135536		11/24/04 1525	tds
	Magnesium, Solid*	5400			1.8	11	1	mg/Kg	135536		11/24/04 1525	tds
	Manganese, Solid*	220			0.14	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Nickel, Solid*	21			0.27	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Lead, Solid*	10			0.46	1.6	1	mg/Kg	135536		11/24/04 1525	tds
	Potassium, Solid*	1800			15	54	1	mg/Kg	135536		11/24/04 1525	tds

\* In Description = Dry Wgt.

Page 39

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: NKN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-060-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-19 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DEVIATION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.66	B		0.43	1.6	1	mg/Kg	135536		11/24/04 1525	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Sodium, Solid*	360			93	320	1	mg/Kg	135536		11/24/04 1525	tds
	Vanadium, Solid*	16			0.23	1.1	1	mg/Kg	135536		11/24/04 1525	tds
	Zinc, Solid*	57			0.43	2.2	1	mg/Kg	135536		11/24/04 1525	tds

\* In Description = Dry Wgt.

Page 40

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: ERIC ELLIS

Customer Sample ID: LNWSb-060-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-19  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		8.1	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U		84	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U		15	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.8	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U		14	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Nitrobenzene, 3541 Low Solid*	38	U		9.8	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzoic acid, 3541 Low Solid*	760	U	*	220	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Naphthalene, 3541 Low Solid*	38	U		9.6	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U		18	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U		61	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		43	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U		51	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		350	1100	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP TA AOCs

ATTN: Eric Elies

Customer Sample ID: LMWsb-060-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-19  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	380		U	39	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38		U	10	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2-Nitrophenol, 3541 Low Solid*	380		U	17	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	3-Nitroaniline, 3541 Low Solid*	760		U	160	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Dimethyl phthalate, 3541 Low Solid*	76		U	10	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760		U	120	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Acenaphthylene, 3541 Low Solid*	38		U	9.5	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Acenaphthene, 3541 Low Solid*	38		U	9.5	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Dibenzofuran, 3541 Low Solid*	76		U	10	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Nitrophenol, 3541 Low Solid*	760		U	240	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Fluorene, 3541 Low Solid*	38		U	10	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Nitroaniline, 3541 Low Solid*	760		U	51	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190		U	11	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Hexachlorobenzene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Diethyl phthalate, 3541 Low Solid*	76		U	11	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190		U	11	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Pentachlorophenol, 3541 Low Solid*	380		U	130	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	760		U	190	760	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Phenanthrene, 3541 Low Solid*	57		U	17	57	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Anthracene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Carbazole, 3541 Low Solid*	190		U	13	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190		U	13	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Fluoranthene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Pyrene, 3541 Low Solid*	57		U	14	57	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76		U	12	76	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38		U	11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Chrysene, 3541 Low Solid*	38		U	12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc. ATTN: Eric Ellis

PROJECT: USACE RVAAP 14 AGCS

Customer Sample ID: LNWsb-D60-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-19  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U		37	190	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	380	U		12	380	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzo(a)pyrene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	136309		11/29/04 0823	dpk
Method	% Solids Determination											
	% Solids, Solid	87.2			0.10	0.10	1	%	134235		11/14/04 1956	clb
	% Moisture, Solid	12.8			0.10	0.10	1	%	134235		11/14/04 1956	clb

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RYARP 14 ADES

ATTN: Eric Ellis

Customer Sample ID: LNWSb-060-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-19  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135657		11/20/04 1358	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1358	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135657		11/20/04 1358	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1358	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135657		11/20/04 1358	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135657		11/20/04 1358	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135657		11/20/04 1358	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135657		11/20/04 1358	san

\* In Description = Dry Wgt.

22

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOC5				ATTN: Eric Ellis					
Customer Sample ID: LHWsb-061-50 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-6 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	PDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	84.3			0.10	0.10	1	%	134235		11/14/04 1920	clb
	% Moisture, Solid	15.7			0.10	0.10	1	%	134235		11/14/04 1920	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	135006		11/19/04 1209	daj
7841	Thallium (GFAA) Thallium, Solid*	0.67		U	0.21	0.67	1	mg/Kg	135008		11/19/04 1259	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.031			0.0051	0.020	1	mg/Kg	135664		11/24/04 1442	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8100			2.7	17	1	mg/Kg	135536		11/24/04 1252	tds
	Barium, Solid*	47			0.18	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Arsenic, Solid*	12			0.58	1.7	1	mg/Kg	135536		11/24/04 1252	tds
	Beryllium, Solid*	0.53			0.050	0.45	1	mg/Kg	135536		11/24/04 1252	tds
	Cadmium, Solid*	0.28		U	0.091	0.28	1	mg/Kg	135536		11/24/04 1252	tds
	Calcium, Solid*	1500			3.5	11	1	mg/Kg	135536		11/24/04 1252	tds
	Chromium, Solid*	12			0.25	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Cobalt, Solid*	8.5			0.16	0.57	1	mg/Kg	135536		11/24/04 1252	tds
	Copper, Solid*	22			1.0	3.4	1	mg/Kg	135536		11/24/04 1252	tds
	Iron, Solid*	22000			3.4	11	1	mg/Kg	135536		11/24/04 1252	tds
	Magnesium, Solid*	2500			1.9	11	1	mg/Kg	135536		11/24/04 1252	tds
	Manganese, Solid*	350			0.15	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Nickel, Solid*	19			0.28	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Lead, Solid*	11			0.49	1.7	1	mg/Kg	135536		11/24/04 1252	tds
	Potassium, Solid*	1000			16	57	1	mg/Kg	135536		11/24/04 1252	tds

\* In Description = Dry Wgt.



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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSB-061-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-6 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.7	U		0.45	1.7	1	mg/Kg	135536		11/24/04 1252	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Sodium, Solid*	320	B		99	340	1	mg/Kg	135536		11/24/04 1252	tds
	Vanadium, Solid*	14			0.24	1.1	1	mg/Kg	135536		11/24/04 1252	tds
	Zinc, Solid*	63			0.45	2.3	1	mg/Kg	135536		11/24/04 1252	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP TA ADCS

ATTN: Eric Elletts

Customer Sample ID: LNWSb-061-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-6  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatle Organics										
	Phenol, 3541 Low Solid*	190	U	8.0	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U	10	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U	15	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U	17	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U	16	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U	83	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U	12	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U	18	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U	15	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Hexachloroethane, 3541 Low Solid*	190	U	9.7	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U	13	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U	15	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Nitrobenzene, 3541 Low Solid*	37	U	9.7	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U	10	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U	15	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Benzoic acid, 3541 Low Solid*	760	U	220	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Isophorone, 3541 Low Solid*	190	U	22	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	370	U	18	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U	10	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Naphthalene, 3541 Low Solid*	37	U	9.5	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	370	U	18	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U	61	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U	42	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	370	U	51	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U	350	1100	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Methylnaphthalene, 3541 Low Solid*	37	U	11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U	12	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U	18	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk

\* In Description = Dry Wgt.

Page 5

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Blize

Customer Sample ID: LNWsb-061-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-6  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	370	U		39	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2-Nitrophenol, 3541 Low Solid*	370	U		17	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	3-Nitroaniline, 3541 Low Solid*	760	U		160	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Dimethyl phthalate, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760	U		120	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Acenaphthylene, 3541 Low Solid*	37	U		9.4	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Acenaphthene, 3541 Low Solid*	37	U		9.4	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Dibenzofuran, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Nitrophenol, 3541 Low Solid*	760	U		240	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Fluorene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Nitroaniline, 3541 Low Solid*	760	U		51	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Hexachlorobenzene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Diethyl phthalate, 3541 Low Solid*	76	U		11	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Pentachlorophenol, 3541 Low Solid*	370	U		130	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	760	U		190	760	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Anthracene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Fluoranthene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Benzo(a)anthracene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk
	Chrysene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk

\* In Description = Dry Wgt.

Page 6

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-061-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-6  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	3,3-Dichlorobenzidine, 3541 Low Solid*	190		U	17	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190		U	36	190	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Di-n-octyl phthalate, 3541 Low Solid*	370		U	12	370	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Benzo(b)fluoranthene, 3541 Low Solid*	37		U	10	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Benzo(k)fluoranthene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Benzo(a)pyrene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	37		U	12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Dibenzo(a,h)anthracene, 3541 Low Solid*	37		U	11	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	Benzo(ghi)perylene, 3541 Low Solid*	37		U	12	37	1.00000	ug/Kg	136309		11/29/04 0636	dpk	
	% Solids Determination												
	% Solids, Solid		84.3			0.10	0.10	1	%	134235		11/14/04 1920	clb
	% Moisture, Solid		15.7			0.10	0.10	1	%	134235		11/14/04 1920	clb

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 11/30/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADS			ATTN: Eric Ellis							
Customer Sample ID: LNWSb-061M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-6 Date Received.....: 11/12/2004 Time Received.....: 09:15										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH	
8330	Explosives by 8330 (HPLC)												
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 0916	san	
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135654		11/18/04 0916	san	
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 0916	san	
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0916	san	
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 0916	san	
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 0916	san	
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 0916	san	
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0916	san	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-062-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-9  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	C	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	75.0			0.10	0.10	1	%	134235		11/14/04 1928	clb
	% Moisture, Solid	25.0			0.10	0.10	1	%	134235		11/14/04 1928	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.52	1.6	1	mg/Kg	135006		11/19/04 1334	daj
7841	Thallium (GFAA) Thallium, Solid*	0.70		U	0.22	0.70	1	mg/Kg	135008		11/19/04 1708	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.022			0.0057	0.022	1	mg/Kg	135664		11/24/04 1454	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	4900			2.6	16	1	mg/Kg	135536		11/24/04 1359	tds
	Barium, Solid*	23			0.17	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Arsenic, Solid*	3.7			0.56	1.6	1	mg/Kg	135536		11/24/04 1359	tds
	Beryllium, Solid*	0.37		B	0.048	0.44	1	mg/Kg	135536		11/24/04 1359	tds
	Cadmium, Solid*	0.27		U	0.087	0.27	1	mg/Kg	135536		11/24/04 1359	tds
	Calcium, Solid*	1600			3.4	11	1	mg/Kg	135536		11/24/04 1359	tds
	Chromium, Solid*	8.4			0.24	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Cobalt, Solid*	6.5			0.15	0.54	1	mg/Kg	135536		11/24/04 1359	tds
	Copper, Solid*	17			0.98	3.3	1	mg/Kg	135536		11/24/04 1359	tds
	Iron, Solid*	14000			3.3	11	1	mg/Kg	135536		11/24/04 1359	tds
	Magnesium, Solid*	2000			1.9	11	1	mg/Kg	135536		11/24/04 1359	tds
	Manganese, Solid*	150			0.14	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Nickel, Solid*	15			0.27	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Lead, Solid*	9.8			0.47	1.6	1	mg/Kg	135536		11/24/04 1359	tds
	Potassium, Solid*	830			15	54	1	mg/Kg	135536		11/24/04 1359	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231912								Date: 12/01/2004				
CUSTOMER: HCN Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LNWSB-062-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil						Laboratory Sample ID: 231912-9 Date Received.....: 11/12/2004 Time Received.....: 09:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.45	B		0.44	1.6	1	mg/Kg	135536		11/24/04 1359	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Sodium, Solid*	280	B		94	330	1	mg/Kg	135536		11/24/04 1359	tds
	Vanadium, Solid*	10			0.23	1.1	1	mg/Kg	135536		11/24/04 1359	tds
	Zinc, Solid*	51			0.44	2.2	1	mg/Kg	135536		11/24/04 1359	tds

\* In Description = Dry Ngt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellye

Customer Sample ID: LNWSb-062-SQ

Laboratory Sample ID: 231912-9

Date Sampled.....: 11/10/2004

Date Received.....: 11/12/2004

Time Sampled.....: 10:30

Time Received.....: 09:15

Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	210	U		9.0	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	85	U		11	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	210	U		19	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	210	U		18	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzyl alcohol, 3541 Low Solid*	850	U		93	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	85	U		13	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	210	U		20	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	85	U		17	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Hexachloroethane, 3541 Low Solid*	210	U		11	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	85	U		15	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Chlorophenol, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Nitrobenzene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	85	U		11	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzoic acid, 3541 Low Solid*	850	U	*	250	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Isophorone, 3541 Low Solid*	210	U		25	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	420	U		21	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Hexachlorobutadiene, 3541 Low Solid*	210	U		11	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Naphthalene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	420	U		20	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Chloroaniline, 3541 Low Solid*	850	U		68	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	210	U		47	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	420	U		57	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1300	U		390	1300	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Methylnaphthalene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Nitroaniline, 3541 Low Solid*	210	U		14	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Chloronaphthalene, 3541 Low Solid*	210	U		20	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk

\* In Description = Dry Wgt.

Page 11



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-062-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-9  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	ML	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	420	U		44	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	42	U		12	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2-Nitrophenol, 3541 Low Solid*	420	U		19	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	3-Nitroaniline, 3541 Low Solid*	850	U		170	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Dimethyl phthalate, 3541 Low Solid*	85	U		11	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	850	U		130	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Acenaphthylene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Acenaphthene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Dibenzofuran, 3541 Low Solid*	85	U		11	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Nitrophenol, 3541 Low Solid*	850	U		270	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Fluorene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Nitroaniline, 3541 Low Solid*	850	U		57	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	210	U		13	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Hexachlorobenzene, 3541 Low Solid*	42	U		12	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Diethyl phthalate, 3541 Low Solid*	85	U		12	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	210	U		13	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Pentachlorophenol, 3541 Low Solid*	420	U		140	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	850	U		210	850	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Phenanthrene, 3541 Low Solid*	63	U		19	63	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Anthracene, 3541 Low Solid*	42	U		14	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Carbazole, 3541 Low Solid*	210	U		15	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	210	U		14	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Fluoranthene, 3541 Low Solid*	42	U		14	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Pyrene, 3541 Low Solid*	63	U		15	63	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	85	U		13	85	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzo(a)anthracene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Chrysene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MCH Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWsb-062-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-9 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	210		U	19	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	210		U	41	210	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	420		U	13	420	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	42		U	11	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	42		U	12	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzo(a)pyrene, 3541 Low Solid*	42		U	12	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	42		U	13	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	42		U	12	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	42		U	14	42	1.00000	ug/Kg	136309		11/29/04 1345	dpk
Method	% Solids Determination											
	% Solids, Solid	75.0			0.10	0.10	1	%	134235		11/14/04 1928	clb
	% Moisture, Solid	25.0			0.10	0.10	1	%	134235		11/14/04 1928	clb

\* In Description = Dry Wgt.

Page 13

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: HKN Engineers, Inc.

PROJECT: USACE RYAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-062-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-9  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135654		11/18/04 1304	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1304	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135654		11/18/04 1304	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1304	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135654		11/18/04 1304	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135654		11/18/04 1304	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135654		11/18/04 1304	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135654		11/18/04 1304	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-063-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.6			0.10	0.10	1	%	134235		11/14/04 1945	c1b
	% Moisture, Solid	13.4			0.10	0.10	1	%	134235		11/14/04 1945	c1b
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.47	1.5	1	mg/Kg	135006		11/19/04 1524	daj
7841	Thallium (GFAA) Thallium, Solid*	0.65		U	0.20	0.65	1	mg/Kg	135008		11/19/04 1850	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.030			0.0050	0.019	1	mg/Kg	135664		11/24/04 1512	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.6	16	1	mg/Kg	135536		11/24/04 1500	tds
	Barium, Solid*	56			0.17	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Arsenic, Solid*	13			0.55	1.6	1	mg/Kg	135536		11/24/04 1500	tds
	Beryllium, Solid*	0.73			0.048	0.43	1	mg/Kg	135536		11/24/04 1500	tds
	Cadmium, Solid*	0.27		U	0.087	0.27	1	mg/Kg	135536		11/24/04 1500	tds
	Calcium, Solid*	17000			3.4	11	1	mg/Kg	135536		11/24/04 1500	tds
	Chromium, Solid*	16			0.24	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Cobalt, Solid*	13			0.15	0.54	1	mg/Kg	135536		11/24/04 1500	tds
	Copper, Solid*	21			0.97	3.2	1	mg/Kg	135536		11/24/04 1500	tds
	Iron, Solid*	25000			3.2	11	1	mg/Kg	135536		11/24/04 1500	tds
	Magnesium, Solid*	4900			1.8	11	1	mg/Kg	135536		11/24/04 1500	tds
	Manganese, Solid*	520			0.14	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Nickel, Solid*	28			0.27	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Lead, Solid*	12			0.47	1.6	1	mg/Kg	135536		11/24/04 1500	tds
	Potassium, Solid*	1900			15	54	1	mg/Kg	135536		11/24/04 1500	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKK Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-063-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 11:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-15 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.62	B		0.43	1.6	1	mg/Kg	135536		11/24/04 1500	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Sodium, Solid*	370			94	320	1	mg/Kg	135536		11/24/04 1500	tds
	Vanadium, Solid*	18			0.23	1.1	1	mg/Kg	135536		11/24/04 1500	tds
	Zinc, Solid*	61			0.43	2.2	1	mg/Kg	135536		11/24/04 1500	tds

\* In Description = Dry Wgt.

Page 32

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RMAAP 14 ADCS

ATTN: Eric Elliott

Customer Sample ID: LNWsb-063-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics										
	Phenol, 3541 Low Solid*	190	U	8.1	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	76	U	10	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U	15	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U	17	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U	16	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Benzyl alcohol, 3541 Low Solid*	760	U	84	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	76	U	12	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U	18	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	76	U	15	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Hexachloroethane, 3541 Low Solid*	190	U	9.8	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	76	U	14	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U	15	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Nitrobenzene, 3541 Low Solid*	38	U	9.8	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	76	U	10	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U	16	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Benzoic acid, 3541 Low Solid*	760	U	220	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Isophorone, 3541 Low Solid*	190	U	22	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	380	U	18	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U	10	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Naphthalene, 3541 Low Solid*	38	U	9.6	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	380	U	18	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Chloroaniline, 3541 Low Solid*	760	U	61	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U	43	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	380	U	51	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U	350	1100	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Methylnaphthalene, 3541 Low Solid*	38	U	11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U	12	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U	18	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKY Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-063-SO

Date Sampled.....: 11/10/2004

Time Sampled.....: 11:15

Sample Matrix.....: Soil

Laboratory Sample ID: 231912-15

Date Received.....: 11/12/2004

Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	380	U		39	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2-Nitrophenol, 3541 Low Solid*	380	U		17	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	3-Nitroaniline, 3541 Low Solid*	760	U		160	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Dimethyl phthalate, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	760	U		120	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Acenaphthylene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Acenaphthene, 3541 Low Solid*	38	U		9.5	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Dibenzofuran, 3541 Low Solid*	76	U		10	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Nitrophenol, 3541 Low Solid*	760	U		240	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Fluorene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Nitroaniline, 3541 Low Solid*	760	U		51	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Hexachlorobenzene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Diethyl phthalate, 3541 Low Solid*	76	U		11	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Pentachlorophenol, 3541 Low Solid*	380	U		130	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	760	U		190	760	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Phenanthrene, 3541 Low Solid*	57	U		17	57	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Anthracene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Fluoranthene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Pyrene, 3541 Low Solid*	57	U		14	57	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	76	U		12	76	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Benzo(a)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk
	Chrysene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk

\* In Description = Dry Wgt.

Page 18

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004					
CUSTOMER: MKM Engineers, Inc.		PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis							
Customer Sample ID: LNWSb-063-SO		Date Sampled.....: 11/10/2004		Time Sampled.....: 11:15		Sample Matrix.....: Soil		Laboratory Sample ID: 231912-15		Date Received.....: 11/12/2004		Time Received.....: 09:15	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U		37	190	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Di-n-octyl phthalate, 3541 Low Solid*	380	U		12	380	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Benzo(b)fluoranthene, 3541 Low Solid*	38	U		10	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Benzo(k)fluoranthene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Benzo(a)pyrene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	38	U		12	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Dibenzo(a,h)anthracene, 3541 Low Solid*	38	U		11	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
	Benzo(ghi)perylene, 3541 Low Solid*	38	U		13	38	1.00000	ug/Kg	136309		11/29/04 0756	dpk	
Method	% Solids Determination												
	% Solids, Solid	86.6			0.10	0.10	1	%	134235		11/14/04 1945	clb	
	% Moisture, Solid	13.4			0.10	0.10	1	%	134235		11/14/04 1945	clb	

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-063-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

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

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135654		11/18/04 1725	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1725	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135654		11/18/04 1725	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1725	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135654		11/18/04 1725	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135654		11/18/04 1725	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135654		11/18/04 1725	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135654		11/18/04 1725	san

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-064-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-8  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.6			0.10	0.10	1	%	134235		11/14/04 1925	clb
	% Moisture, Solid	12.4			0.10	0.10	1	%	134235		11/14/04 1925	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	135006		11/19/04 1310	daj
7841	Thallium (GFAA) Thallium, Solid*	0.21		B	0.21	0.65	1	mg/Kg	135008		11/19/04 1402	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.027			0.0049	0.019	1	mg/Kg	135664		11/24/04 1451	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.6	17	1	mg/Kg	135536		11/24/04 1353	tds
	Barium, Solid*	49			0.18	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Arsenic, Solid*	17			0.56	1.7	1	mg/Kg	135536		11/24/04 1353	tds
	Beryllium, Solid*	0.74			0.049	0.44	1	mg/Kg	135536		11/24/04 1353	tds
	Cadmium, Solid*	0.28		U	0.088	0.28	1	mg/Kg	135536		11/24/04 1353	tds
	Calcium, Solid*	11000			3.4	11	1	mg/Kg	135536		11/24/04 1353	tds
	Chromium, Solid*	17			0.24	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Cobalt, Solid*	13			0.15	0.55	1	mg/Kg	135536		11/24/04 1353	tds
	Copper, Solid*	24			0.99	3.3	1	mg/Kg	135536		11/24/04 1353	tds
	Iron, Solid*	26000			3.3	11	1	mg/Kg	135536		11/24/04 1353	tds
	Magnesium, Solid*	5000			1.9	11	1	mg/Kg	135536		11/24/04 1353	tds
	Manganese, Solid*	330			0.14	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Nickel, Solid*	26			0.28	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Lead, Solid*	15			0.47	1.7	1	mg/Kg	135536		11/24/04 1353	tds
	Potassium, Solid*	1900			15	55	1	mg/Kg	135536		11/24/04 1353	tds

\* In Description = Dry Wgt.

Page 17

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LABORATORY TEST RESULTS												
Job Number: 231912								Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AGCS				ATTN: EPIC ELLIS				
Customer Sample ID: LNWSB-064-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 12:45 Sample Matrix.....: Soil						Laboratory Sample ID: 231912-B Date Received.....: 11/12/2004 Time Received.....: 09:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.59	B		0.44	1.7	1	mg/Kg	135536		11/24/04 1353	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Sodium, Solid*	370			96	330	1	mg/Kg	135536		11/24/04 1353	tds
	Vanadium, Solid*	18			0.23	1.1	1	mg/Kg	135536		11/24/04 1353	tds
	Zinc, Solid*	66			0.44	2.2	1	mg/Kg	135536		11/24/04 1353	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RYARP 14 AUCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-064-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-8  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatiles Organics											
	Phenol, 3541 Low Solid*	180	U		7.7	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	73	U		9.7	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzyl alcohol, 3541 Low Solid*	730	U		80	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	73	U		11	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	73	U		14	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Hexachloroethane, 3541 Low Solid*	180	U		9.4	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	73	U		13	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Chlorophenol, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Nitrobenzene, 3541 Low Solid*	36	U		9.4	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	73	U		9.6	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzoic acid, 3541 Low Solid*	730	U	*	210	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Isophorone, 3541 Low Solid*	180	U		21	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	360	U		18	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Hexachlorobutadiene, 3541 Low Solid*	180	U		9.8	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Naphthalene, 3541 Low Solid*	36	U		9.1	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	360	U		17	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Chloroaniline, 3541 Low Solid*	730	U		59	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	180	U		41	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	360	U		49	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		330	1100	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Methylnaphthalene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Nitroaniline, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Chloronaphthalene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-064-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-8  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	360	U		38	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2-Nitrophenol, 3541 Low Solid*	360	U		16	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	3-Nitroaniline, 3541 Low Solid*	730	U		150	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Dimethyl phthalate, 3541 Low Solid*	73	U		9.7	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	730	U		110	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Acenaphthylene, 3541 Low Solid*	36	U		9.0	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Acenaphthene, 3541 Low Solid*	36	U		9.0	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Dibenzofuran, 3541 Low Solid*	73	U		9.6	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Nitrophenol, 3541 Low Solid*	730	U		230	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Fluorene, 3541 Low Solid*	36	U		9.8	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Nitroaniline, 3541 Low Solid*	730	U		49	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	180	U		11	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Hexachlorobenzene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Diethyl phthalate, 3541 Low Solid*	73	U		10	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	180	U		11	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Pentachlorophenol, 3541 Low Solid*	360	U		120	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	730	U		180	730	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Phenanthrene, 3541 Low Solid*	54	U		16	54	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Anthracene, 3541 Low Solid*	36	U		12	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Carbazole, 3541 Low Solid*	180	U		13	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Fluoranthene, 3541 Low Solid*	36	U		12	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Pyrene, 3541 Low Solid*	54	U		13	54	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	73	U		11	73	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzo(a)anthracene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Chrysene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MKH Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LNWSB-064-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 12:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-8 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	180		U	16	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	180		U	35	180	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	360		U	11	360	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	36		U	9.7	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	36		U	10	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzo(a)pyrene, 3541 Low Solid*	36		U	10	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	36		U	11	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	36		U	10	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	36		U	12	36	1.00000	ug/Kg	136309		11/29/04 0703	dpk
Method	% Solids Determination											
	% Solids, Solid	87.6			0.10	0.10	1	%	134235		11/14/04 1925	clb
	% Moisture, Solid	12.4			0.10	0.10	1	%	134235		11/14/04 1925	clb

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 11/30/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 MOCS				ATTN: Eric Ellis					
Customer Sample ID: LNwsb-064-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 12:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-8 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20		U	0.056	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	RDX, Solid	0.20		U	0.063	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	1,3,5-Trinitrobenzene, Solid	0.10		U	0.033	0.10	1.00000	mg/Kg	135654		11/18/04 1231	san
	1,3-Dinitrobenzene, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135654		11/18/04 1231	san
	Nitrobenzene, Solid	0.10		U	0.021	0.10	1.00000	mg/Kg	135654		11/18/04 1231	san
	2,4,6-TNT, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135654		11/18/04 1231	san
	Tetryl, Solid	0.40		U	0.12	0.40	1.00000	mg/Kg	135654		11/18/04 1231	san
	2,4-Dinitrotoluene, Solid	0.10		U	0.026	0.10	1.00000	mg/Kg	135654		11/18/04 1231	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.046	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30		U	0.094	0.30	1.00000	mg/Kg	135654		11/18/04 1231	san
	2-Nitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	4-Nitrotoluene, Solid	0.20		U	0.050	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san
	3-Nitrotoluene, Solid	0.20		U	0.053	0.20	1.00000	mg/Kg	135654		11/18/04 1231	san

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-064-DUP			Laboratory Sample ID: 231912-14									
Date Sampled.....: 11/10/2004			Date Received.....: 11/12/2004									
Time Sampled.....: 12:45			Time Received.....: 09:15									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.0			0.10	0.10	1	%	134235		11/14/04 1942	clb
	% Moisture, Solid	14.0			0.10	0.10	1	%	134235		11/14/04 1942	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	135006		11/19/04 1511	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	135008		11/19/04 1838	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.034			0.0050	0.019	1	mg/Kg	135664		11/24/04 1509	gok
60108	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.7	17	1	mg/Kg	135536		11/24/04 1454	tds
	Barium, Solid*	57			0.18	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Arsenic, Solid*	11			0.57	1.7	1	mg/Kg	135536		11/24/04 1454	tds
	Beryllium, Solid*	0.83			0.049	0.44	1	mg/Kg	135536		11/24/04 1454	tds
	Cadmium, Solid*	0.28		U	0.089	0.28	1	mg/Kg	135536		11/24/04 1454	tds
	Calcium, Solid*	4500			3.4	11	1	mg/Kg	135536		11/24/04 1454	tds
	Chromium, Solid*	18			0.24	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Cobalt, Solid*	13			0.16	0.55	1	mg/Kg	135536		11/24/04 1454	tds
	Copper, Solid*	27			1	3.3	1	mg/Kg	135536		11/24/04 1454	tds
	Iron, Solid*	28000			3.3	11	1	mg/Kg	135536		11/24/04 1454	tds
	Magnesium, Solid*	4500			1.9	11	1	mg/Kg	135536		11/24/04 1454	tds
	Manganese, Solid*	540			0.14	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Nickel, Solid*	29			0.28	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Lead, Solid*	12			0.48	1.7	1	mg/Kg	135536		11/24/04 1454	tds
	Potassium, Solid*	1800			15	55	1	mg/Kg	135536		11/24/04 1454	tds

\* In Description = Dry Wgt.

Page 29



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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LMWsb-064-DUP Date Sampled.....: 11/10/2004 Time Sampled.....: 12:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-14 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.77	B		0.44	1.7	1	mg/Kg	135536		11/24/04 1454	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Sodium, Solid*	390			96	330	1	mg/Kg	135536		11/24/04 1454	tds
	Vanadium, Solid*	18			0.23	1.1	1	mg/Kg	135536		11/24/04 1454	tds
	Zinc, Solid*	65			0.44	2.2	1	mg/Kg	135536		11/24/04 1454	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAMP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LNWSB-064-DUP  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-14  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	190	U		7.9	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	75	U		9.9	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	190	U		16	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzyl alcohol, 3541 Low Solid*	750	U		82	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	75	U		12	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	190	U		18	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	75	U		15	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Hexachloroethane, 3541 Low Solid*	190	U		9.6	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	75	U		13	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Chlorophenol, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Nitrobenzene, 3541 Low Solid*	37	U		9.6	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	75	U		9.8	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	190	U		15	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzoic acid, 3541 Low Solid*	750	U	*	220	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Isophorone, 3541 Low Solid*	190	U		22	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	370	U		18	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Hexachlorobutadiene, 3541 Low Solid*	190	U		10	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Naphthalene, 3541 Low Solid*	37	U		9.4	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	370	U		17	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Chloroaniline, 3541 Low Solid*	750	U		60	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	190	U		42	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	370	U		50	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		340	1100	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Methylnaphthalene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Nitroaniline, 3541 Low Solid*	190	U		12	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Chloronaphthalene, 3541 Low Solid*	190	U		17	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ACES

ATTN: Eric Ellis

Customer Sample ID: LNWsb-064-DUP  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-14  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	370	U		39	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2-Nitrophenol, 3541 Low Solid*	370	U		16	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	3-Nitroaniline, 3541 Low Solid*	750	U		150	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Dimethyl phthalate, 3541 Low Solid*	75	U		9.9	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	750	U		120	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Acenaphthylene, 3541 Low Solid*	37	U		9.3	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Acenaphthene, 3541 Low Solid*	37	U		9.3	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Dibenzofuran, 3541 Low Solid*	75	U		9.8	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Nitrophenol, 3541 Low Solid*	750	U		240	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Fluorene, 3541 Low Solid*	37	U		10	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Nitroaniline, 3541 Low Solid*	750	U		50	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Hexachlorobenzene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Diethyl phthalate, 3541 Low Solid*	75	U		11	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	190	U		11	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Pentachlorophenol, 3541 Low Solid*	370	U		120	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	750	U		190	750	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Phenanthrene, 3541 Low Solid*	56	U		17	56	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Anthracene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Carbazole, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	190	U		13	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Fluoranthene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Pyrene, 3541 Low Solid*	56	U		13	56	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	75	U		11	75	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzo(a)anthracene, 3541 Low Solid*	37	U		11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Chrysene, 3541 Low Solid*	37	U		12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk

\* In Description = Dry Wgt.

Page 15

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-064-DUP

Laboratory Sample ID: 231912-14

Date Sampled.....: 11/10/2004

Date Received.....: 11/12/2004

Time Sampled.....: 12:45

Time Received.....: 09:15

Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	190	U	16	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	190	U	36	190	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	370	U	12	370	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	37	U	9.9	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	37	U	10	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzo(a)pyrene, 3541 Low Solid*	37	U	11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	37	U	11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	37	U	11	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	37	U	12	37	1.00000	ug/Kg	136309		11/29/04 0729	dpk
Method	% Solids Determination										
	% Solids, Solid	86.0		0.10	0.10	1	%	134235		11/14/04 1942	clb
	% Moisture, Solid	14.0		0.10	0.10	1	%	134235		11/14/04 1942	clb

\* In Description = Dry Wgt.

Page 16

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-064-DUP  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-14  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	RDX, Solid	0.20	U		0.061	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135654		11/18/04 1652	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1652	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135654		11/18/04 1652	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1652	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135654		11/18/04 1652	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135654		11/18/04 1652	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	135654		11/18/04 1652	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135654		11/18/04 1652	san

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCS			ATTN: Eric Ellis						
Customer Sample ID: LNWSb-065-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 11:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-25 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	81.5			0.10	0.10	1	%	134487		11/16/04 1216	daj
	% Moisture, Solid	18.5			0.10	0.10	1	%	134487		11/16/04 1216	daj
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	135006		11/19/04 1931	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	135008		11/19/04 2324	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.020		U	0.0053	0.020	1	mg/Kg	135393		11/23/04 1656	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9300			2.8	17	1	mg/Kg	135536		11/24/04 1750	tds
	Barium, Solid*	59			0.18	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Arsenic, Solid*	10			0.59	1.7	1	mg/Kg	135536		11/24/04 1750	tds
	Beryllium, Solid*	0.56			0.051	0.46	1	mg/Kg	135536		11/24/04 1750	tds
	Cadmium, Solid*	0.29		U	0.092	0.29	1	mg/Kg	135536		11/24/04 1750	tds
	Calcium, Solid*	1400			3.6	12	1	mg/Kg	135536		11/24/04 1750	tds
	Chromium, Solid*	13			0.25	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Cobalt, Solid*	8.1			0.16	0.58	1	mg/Kg	135536		11/24/04 1750	tds
	Copper, Solid*	17			1.0	3.5	1	mg/Kg	135536		11/24/04 1750	tds
	Iron, Solid*	19000			3.5	12	1	mg/Kg	135536		11/24/04 1750	tds
	Magnesium, Solid*	2200			2.0	12	1	mg/Kg	135536		11/24/04 1750	tds
	Manganese, Solid*	400			0.15	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Nickel, Solid*	17			0.29	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Lead, Solid*	13			0.49	1.7	1	mg/Kg	135536		11/24/04 1750	tds
	Potassium, Solid*	1100			16	58	1	mg/Kg	135536		11/24/04 1750	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-065-SD Date Sampled.....: 11/10/2004 Time Sampled.....: 11:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-25 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.63	B		0.46	1.7	1	mg/Kg	135536		11/24/04 1750	tds
	Silver, Solid*	1.2	U		0.36	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Sodium, Solid*	360			100	350	1	mg/Kg	135536		11/24/04 1750	tds
	Vanadium, Solid*	17			0.24	1.2	1	mg/Kg	135536		11/24/04 1750	tds
	Zinc, Solid*	56			0.46	2.3	1	mg/Kg	135536		11/24/04 1750	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USAGE RVAAP 14 ROCS

ATTN: Eric Ellis

Customer Sample ID: LNWsb-065-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-25  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	200	U		8.5	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	80	U		11	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	200	U		18	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	200	U		17	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzyl alcohol, 3541 Low Solid*	800	U		88	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	80	U		13	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	200	U		19	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	80	U		16	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Hexachloroethane, 3541 Low Solid*	200	U		10	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	80	U		14	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Chlorophenol, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Nitrobenzene, 3541 Low Solid*	39	U		10	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	80	U		10	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzoic acid, 3541 Low Solid*	800	U	*	230	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Isophorone, 3541 Low Solid*	200	U		23	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	390	U		19	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Hexachlorobutadiene, 3541 Low Solid*	200	U		11	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Naphthalene, 3541 Low Solid*	39	U		10	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	390	U		18	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Chloroaniline, 3541 Low Solid*	800	U		64	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	200	U		45	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	390	U		53	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		360	1200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Methylnaphthalene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Nitroaniline, 3541 Low Solid*	200	U		13	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Chloronaphthalene, 3541 Low Solid*	200	U		19	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-065-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-25  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	390	U		41	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2-Nitrophenol, 3541 Low Solid*	390	U		18	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	3-Nitroaniline, 3541 Low Solid*	800	U		160	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Dimethyl phthalate, 3541 Low Solid*	80	U		11	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	800	U		120	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Acenaphthylene, 3541 Low Solid*	39	U		9.9	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Acenaphthene, 3541 Low Solid*	39	U		9.9	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Dibenzofuran, 3541 Low Solid*	80	U		10	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Nitrophenol, 3541 Low Solid*	800	U		250	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Fluorene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Nitroaniline, 3541 Low Solid*	800	U		53	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	200	U		12	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Hexachlorobenzene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Diethyl phthalate, 3541 Low Solid*	80	U		11	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	200	U		12	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Pentachlorophenol, 3541 Low Solid*	390	U		130	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	800	U		200	800	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Phenanthrene, 3541 Low Solid*	60	U		18	60	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Anthracene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Carbazole, 3541 Low Solid*	200	U		14	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	200	U		14	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Fluoranthene, 3541 Low Solid*	22	J		13	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Pyrene, 3541 Low Solid*	60	U		14	60	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	80	U		12	80	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzo(a)anthracene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Chrysene, 3541 Low Solid*	14	J		13	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADDS				ATTN: Eric Ellis					
Customer Sample ID: LNWeb-065-60 Date Sampled.....: 11/10/2004 Time Sampled.....: 11:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-25 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	200	U		18	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	200	U		38	200	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	390	U		12	390	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	17	J		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzo(a)pyrene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 1131	dpk
Method	% Solids Determination											
	% Solids, Solid	81.5			0.10	0.10	1	%	134487		11/16/04 1216	daj
	% Moisture, Solid	18.5			0.10	0.10	1	%	134487		11/16/04 1216	daj

\* In Description = Dry Wgt.

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Job Number: 231912 LABORATORY TEST RESULTS Date: 11/30/2004

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

Customer Sample ID: LNWSb-065-S0 Laboratory Sample ID: 231912-25  
 Date Sampled.....: 11/10/2004 Date Received.....: 11/12/2004  
 Time Sampled.....: 11:45 Time Received.....: 09:15  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20		U	0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	RDX, Solid	0.20		U	0.063	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	1,3,5-Trinitrobenzene, Solid	0.10		U	0.033	0.10	1.00000	mg/Kg	135657		11/20/04 1818	san
	1,3-Dinitrobenzene, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135657		11/20/04 1818	san
	Nitrobenzene, Solid	0.10		U	0.021	0.10	1.00000	mg/Kg	135657		11/20/04 1818	san
	2,4,6-TNT, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135657		11/20/04 1818	san
	Tetryl, Solid	0.40		U	0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1818	san
	2,4-Dinitrotoluene, Solid	0.10		U	0.026	0.10	1.00000	mg/Kg	135657		11/20/04 1818	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.046	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30		U	0.094	0.30	1.00000	mg/Kg	135657		11/20/04 1818	san
	2-Nitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	4-Nitrotoluene, Solid	0.20		U	0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san
	3-Nitrotoluene, Solid	0.20		U	0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1818	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-066-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-3  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	84.3			0.10	0.10	1	%	134235		11/14/04 1911	clb
	% Moisture, Solid	15.7			0.10	0.10	1	%	134235		11/14/04 1911	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.50	1.6	1	mg/Kg	135006		11/19/04 1132	daj
7841	Thallium (GFAA) Thallium, Solid*	0.68		U	0.22	0.68	1	mg/Kg	135008		11/19/04 1222	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.036			0.0051	0.020	1	mg/Kg	135664		11/24/04 1427	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.6	17	1	mg/Kg	135536		11/24/04 1234	tds
	Barium, Solid*	61			0.18	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Arsenic, Solid*	14			0.56	1.7	1	mg/Kg	135536		11/24/04 1234	tds
	Beryllium, Solid*	0.69			0.049	0.44	1	mg/Kg	135536		11/24/04 1234	tds
	Cadmium, Solid*	0.28		U	0.088	0.28	1	mg/Kg	135536		11/24/04 1234	tds
	Calcium, Solid*	1800			3.4	11	1	mg/Kg	135536		11/24/04 1234	tds
	Chromium, Solid*	15			0.24	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Cobalt, Solid*	10			0.15	0.55	1	mg/Kg	135536		11/24/04 1234	tds
	Copper, Solid*	20			0.99	3.3	1	mg/Kg	135536		11/24/04 1234	tds
	Iron, Solid*	25000			3.3	11	1	mg/Kg	135536		11/24/04 1234	tds
	Magnesium, Solid*	3400			1.9	11	1	mg/Kg	135536		11/24/04 1234	tds
	Manganese, Solid*	400			0.14	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Nickel, Solid*	25			0.28	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Lead, Solid*	12			0.47	1.7	1	mg/Kg	135536		11/24/04 1234	tds
	Potassium, Solid*	1500			15	55	1	mg/Kg	135536		11/24/04 1234	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: HCN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-066-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 14:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-3 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MR	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.54	B		0.44	1.7	1	mg/Kg	135536		11/24/04 1234	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Sodium, Solid*	340			96	330	1	mg/Kg	135536		11/24/04 1234	tds
	Vanadium, Solid*	16			0.23	1.1	1	mg/Kg	135536		11/24/04 1234	tds
	Zinc, Solid*	65			0.44	2.2	1	mg/Kg	135536		11/24/04 1234	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RYAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-066-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-3  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	200	U		8.3	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	79	U		10	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	200	U		18	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	200	U		17	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzyl alcohol, 3541 Low Solid*	790	U		87	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	79	U		12	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	200	U		19	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	79	U		16	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Hexachloroethane, 3541 Low Solid*	200	U		10	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	79	U		14	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Chlorophenol, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Nitrobenzene, 3541 Low Solid*	39	U		10	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	79	U		10	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	200	U		16	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzoic acid, 3541 Low Solid*	790	U	*	230	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Isophorone, 3541 Low Solid*	200	U		23	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	390	U		19	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Hexachlorobutadiene, 3541 Low Solid*	200	U		11	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Naphthalene, 3541 Low Solid*	39	U		9.9	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	390	U		18	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Chloroaniline, 3541 Low Solid*	790	U		63	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	200	U		44	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	390	U		53	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		360	1200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Methylnaphthalene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Nitroaniline, 3541 Low Solid*	200	U		13	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Chloronaphthalene, 3541 Low Solid*	200	U		18	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk

\* In Description = Dry Wgt.

Page 2

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RWAP 14 ADS

ATTN: Eric Ellis

Customer Sample ID: LNWSb-066-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-3  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	390	U		41	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2-Nitrophenol, 3541 Low Solid*	390	U		17	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	3-Nitroaniline, 3541 Low Solid*	790	U		160	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Dimethyl phthalate, 3541 Low Solid*	79	U		10	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	790	U		120	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Acenaphthylene, 3541 Low Solid*	39	U		9.8	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Acenaphthene, 3541 Low Solid*	39	U		9.8	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Dibenzofuran, 3541 Low Solid*	79	U		10	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Nitrophenol, 3541 Low Solid*	790	U		250	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Fluorene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Nitroaniline, 3541 Low Solid*	790	U		53	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	200	U		12	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Hexachlorobenzene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Diethyl phthalate, 3541 Low Solid*	79	U		11	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	200	U		12	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Pentachlorophenol, 3541 Low Solid*	390	U		130	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	790	U		200	790	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Phenanthrene, 3541 Low Solid*	59	U		18	59	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Anthracene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Carbazole, 3541 Low Solid*	200	U		14	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	200	U		13	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Fluoranthene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Pyrene, 3541 Low Solid*	59	U		14	59	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	79	U		12	79	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzo(a)anthracene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Chrysene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVARP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-066-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-3  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	200	U		17	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	200	U		38	200	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	390	U		12	390	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	39	U		10	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzo(a)pyrene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 0609	dpk
Method	% Solids Determination											
	% Solids, Solid	84.3			0.10	0.10	1	%	134235		11/14/04 1911	clb
	% Moisture, Solid	15.7			0.10	0.10	1	%	134235		11/14/04 1911	clb

\* In Description = Dry Wgt.

Page 4



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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RWAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-066-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-3  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 0738	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135654		11/18/04 0738	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 0738	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0738	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 0738	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 0738	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 0738	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0738	san

\* In Description = Dry Wgt.

Page 5

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-067-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 13:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-20  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	73.9			0.10	0.10	1	%	134235		11/14/04 1959	clb
	% Moisture, Solid	26.1			0.10	0.10	1	%	134235		11/14/04 1959	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.51	1.6	1	mg/Kg	135006		11/19/04 1701	daj
7841	Thallium (GFAA) Thallium, Solid*	0.70		U	0.22	0.70	1	mg/Kg	135008		11/19/04 2054	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.022		B	0.0058	0.022	1	mg/Kg	135664		11/24/04 1523	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	5600			2.6	16	1	mg/Kg	135536		11/24/04 1532	tds
	Barium, Solid*	16			0.17	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Arsenic, Solid*	9.6			0.55	1.6	1	mg/Kg	135536		11/24/04 1532	tds
	Beryllium, Solid*	0.38		B	0.048	0.44	1	mg/Kg	135536		11/24/04 1532	tds
	Cadmium, Solid*	0.27		U	0.087	0.27	1	mg/Kg	135536		11/24/04 1532	tds
	Calcium, Solid*	870			3.4	11	1	mg/Kg	135536		11/24/04 1532	tds
	Chromium, Solid*	10			0.24	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Cobalt, Solid*	5.7			0.15	0.54	1	mg/Kg	135536		11/24/04 1532	tds
	Copper, Solid*	21			0.98	3.3	1	mg/Kg	135536		11/24/04 1532	tds
	Iron, Solid*	18000			3.3	11	1	mg/Kg	135536		11/24/04 1532	tds
	Magnesium, Solid*	2100			1.8	11	1	mg/Kg	135536		11/24/04 1532	tds
	Manganese, Solid*	120			0.14	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Nickel, Solid*	15			0.27	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Lead, Solid*	9.8			0.47	1.6	1	mg/Kg	135536		11/24/04 1532	tds
	Potassium, Solid*	810			15	54	1	mg/Kg	135536		11/24/04 1532	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: HMM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LNWsb-067-SD Date Sampled.....: 11/10/2004 Time Sampled.....: 13:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-20 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.78	B		0.44	1.6	1	mg/Kg	135536		11/24/04 1532	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Sodium, Solid*	240	B		94	330	1	mg/Kg	135536		11/24/04 1532	tds
	Vanadium, Solid*	9.9			0.23	1.1	1	mg/Kg	135536		11/24/04 1532	tds
	Zinc, Solid*	51			0.44	2.2	1	mg/Kg	135536		11/24/04 1532	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

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

Customer Sample ID: LNWSb-067-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 13:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-20  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	210		U	9.1	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	86		U	11	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	210		U	17	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	210		U	20	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	210		U	18	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzyl alcohol, 3541 Low Solid*	860		U	95	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	86		U	14	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,2-oxybis(1-chloropropane), 3541 Low Solid*	210		U	20	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	86		U	17	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Hexachloroethane, 3541 Low Solid*	210		U	11	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	86		U	15	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Chlorophenol, 3541 Low Solid*	210		U	17	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Nitrobenzene, 3541 Low Solid*	42		U	11	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	86		U	11	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	210		U	18	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzoic acid, 3541 Low Solid*	860		U	250	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Isophorone, 3541 Low Solid*	210		U	25	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	420		U	21	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Hexachlorobutadiene, 3541 Low Solid*	210		U	12	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Naphthalene, 3541 Low Solid*	42		U	11	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	420		U	20	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Chloroaniline, 3541 Low Solid*	860		U	69	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	210		U	48	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	420		U	58	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1300		U	390	1300	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Methylnaphthalene, 3541 Low Solid*	42		U	13	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Nitroaniline, 3541 Low Solid*	210		U	14	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Chloronaphthalene, 3541 Low Solid*	210		U	20	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RWAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-067-SD  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 13:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-20  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	420	U		45	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	42	U		12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2-Nitrophenol, 3541 Low Solid*	420	U		19	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	3-Nitroaniline, 3541 Low Solid*	860	U		180	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Dimethyl phthalate, 3541 Low Solid*	86	U		11	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	860	U		130	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Acenaphthylene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Acenaphthene, 3541 Low Solid*	42	U		11	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Dibenzofuran, 3541 Low Solid*	86	U		11	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Nitrophenol, 3541 Low Solid*	860	U		270	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Fluorene, 3541 Low Solid*	42	U		12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Nitroaniline, 3541 Low Solid*	860	U		58	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	210	U		13	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Hexachlorobenzene, 3541 Low Solid*	42	U		12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Diethyl phthalate, 3541 Low Solid*	86	U		12	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	210	U		13	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Pentachlorophenol, 3541 Low Solid*	420	U		140	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	860	U		220	860	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Phenanthrene, 3541 Low Solid*	64	U		19	64	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Anthracene, 3541 Low Solid*	42	U		14	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Carbazole, 3541 Low Solid*	210	U		15	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	210	U		15	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Fluoranthene, 3541 Low Solid*	42	U		14	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Pyrene, 3541 Low Solid*	64	U		15	64	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	86	U		13	86	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzo(a)anthracene, 3541 Low Solid*	42	U		13	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Chrysene, 3541 Low Solid*	42	U		14	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: NCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-067-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 13:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-20  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	210	U	19	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	210	U	41	210	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	420	U	13	420	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	42	U	11	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	42	U	12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzo(a)pyrene, 3541 Low Solid*	42	U	12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	42	U	13	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	42	U	12	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	42	U	14	42	1.00000	ug/Kg	136309		11/29/04 0850	dpk
Method	% Solids Determination										
	% Solids, Solid	73.9		0.10	0.10	1	%	134235		11/14/04 1959	clb
	% Moisture, Solid	26.1		0.10	0.10	1	%	134235		11/14/04 1959	clb

\* In Description = Dry Wgt.

## LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MGN Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Elliott

Customer Sample ID: LNWSb-067-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 13:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-20  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135657		11/20/04 1430	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135657		11/20/04 1430	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135657		11/20/04 1430	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135657		11/20/04 1430	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1430	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135657		11/20/04 1430	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135657		11/20/04 1430	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1430	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231912								Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADDS				ATTN: Eric Ellis				
Customer Sample ID: LNWsb-068-SD Date Sampled.....: 11/10/2004 Time Sampled.....: 14:45 Sample Matrix.....: Soil						Laboratory Sample ID: 231912-22 Date Received.....: 11/12/2004 Time Received.....: 09:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	83.6			0.10	0.10	1	%	134487		11/16/04 1208	daj
	% Moisture, Solid	16.4			0.10	0.10	1	%	134487		11/16/04 1208	daj
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.50	1.6	1	mg/Kg	135006		11/19/04 1807	daj
7841	Thallium (GFAA) Thallium, Solid*	0.68		U	0.22	0.68	1	mg/Kg	135008		11/19/04 2156	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.018		B	0.0051	0.020	1	mg/Kg	135393		11/23/04 1649	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6200			2.7	17	1	mg/Kg	135536		11/24/04 1643	tds
	Barium, Solid*	34			0.18	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Arsenic, Solid*	10			0.58	1.7	1	mg/Kg	135536		11/24/04 1643	tds
	Beryllium, Solid*	0.42		B	0.050	0.45	1	mg/Kg	135536		11/24/04 1643	tds
	Cadmium, Solid*	0.28		U	0.091	0.28	1	mg/Kg	135536		11/24/04 1643	tds
	Calcium, Solid*	600			3.5	11	1	mg/Kg	135536		11/24/04 1643	tds
	Chromium, Solid*	8.2			0.25	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Cobalt, Solid*	6.2			0.16	0.57	1	mg/Kg	135536		11/24/04 1643	tds
	Copper, Solid*	20			1.0	3.4	1	mg/Kg	135536		11/24/04 1643	tds
	Iron, Solid*	17000			3.4	11	1	mg/Kg	135536		11/24/04 1643	tds
	Magnesium, Solid*	1700			1.9	11	1	mg/Kg	135536		11/24/04 1643	tds
	Manganese, Solid*	380			0.15	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Nickel, Solid*	15			0.28	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Lead, Solid*	10			0.49	1.7	1	mg/Kg	135536		11/24/04 1643	tds
	Potassium, Solid*	870			16	57	1	mg/Kg	135536		11/24/04 1643	tds

\* In Description = Dry Wgt.

Page 45



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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USACE RVAAP 14 ACOS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-068-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 14:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-22 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.69	B		0.45	1.7	1	mg/Kg	135536		11/24/04 1643	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Sodium, Solid*	250	B		98	340	1	mg/Kg	135536		11/24/04 1643	tds
	Vanadium, Solid*	13			0.24	1.1	1	mg/Kg	135536		11/24/04 1643	tds
	Zinc, Solid*	65			0.45	2.3	1	mg/Kg	135536		11/24/04 1643	tds

\* In Description = Dry Wgt.

Page 46

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: ERIC ELIIS

Customer Sample ID: LNWsb-068-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-22  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics										
	Phenol, 3541 Low Solid*	200	U	8.4	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	79	U	11	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	200	U	16	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	200	U	18	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	200	U	17	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzyl alcohol, 3541 Low Solid*	790	U	87	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	79	U	12	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	200	U	19	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	79	U	16	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Hexachloroethane, 3541 Low Solid*	200	U	10	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	79	U	14	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Chlorophenol, 3541 Low Solid*	200	U	16	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Nitrobenzene, 3541 Low Solid*	39	U	10	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	79	U	10	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	200	U	16	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzoic acid, 3541 Low Solid*	790	U	230	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Isophorone, 3541 Low Solid*	200	U	23	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	390	U	19	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Hexachlorobutadiene, 3541 Low Solid*	200	U	11	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Naphthalene, 3541 Low Solid*	39	U	9.9	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	390	U	18	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Chloroaniline, 3541 Low Solid*	790	U	64	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	200	U	44	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	390	U	53	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U	360	1200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Methylnaphthalene, 3541 Low Solid*	39	U	12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Nitroaniline, 3541 Low Solid*	200	U	13	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Chloronaphthalene, 3541 Low Solid*	200	U	18	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk

\* In Description = Dry Wgt.

Page 29

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-068-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-22  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	NDI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	390	U	41	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	39	U	11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2-Nitrophenol, 3541 Low Solid*	390	U	17	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	3-Nitroaniline, 3541 Low Solid*	790	U	160	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Dimethyl phthalate, 3541 Low Solid*	79	U	11	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	790	U	120	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Acenaphthylene, 3541 Low Solid*	39	U	9.8	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	39	U	12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Acenaphthene, 3541 Low Solid*	39	U	9.8	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Dibenzofuran, 3541 Low Solid*	79	U	10	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Nitrophenol, 3541 Low Solid*	790	U	250	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Fluorene, 3541 Low Solid*	39	U	11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Nitroaniline, 3541 Low Solid*	790	U	53	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	200	U	12	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Hexachlorobenzene, 3541 Low Solid*	39	U	11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Diethyl phthalate, 3541 Low Solid*	79	U	11	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	200	U	12	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Pentachlorophenol, 3541 Low Solid*	390	U	130	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	39	U	12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	790	U	200	790	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Phenanthrene, 3541 Low Solid*	59	U	18	59	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Anthracene, 3541 Low Solid*	39	U	13	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Carbazole, 3541 Low Solid*	200	U	14	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	200	U	13	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Fluoranthene, 3541 Low Solid*	39	U	13	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Pyrene, 3541 Low Solid*	59	U	14	59	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	79	U	12	79	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzo(a)anthracene, 3541 Low Solid*	39	U	12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Chrysene, 3541 Low Solid*	39	U	12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-068-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 14:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-22 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	200	U		17	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	200	U		38	200	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	390	U		12	390	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzo(a)pyrene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	39	U		12	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	39	U		11	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	39	U		13	39	1.00000	ug/Kg	136309		11/29/04 1010	dpk
	Method	% Solids Determination										
	% Solids, Solid	83.6			0.10	0.10	1	%	134487		11/16/04 1208	daj
	% Moisture, Solid	16.4			0.10	0.10	1	%	134487		11/16/04 1208	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 1 & AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-068-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-22  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	ROX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135657		11/20/04 1535	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135657		11/20/04 1535	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135657		11/20/04 1535	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135657		11/20/04 1535	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1535	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135657		11/20/04 1535	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135657		11/20/04 1535	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1535	san

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-069-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 15:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-26 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	79.8			0.10	0.10	1	%	134487		11/16/04 1219	daj
	% Moisture, Solid	20.2			0.10	0.10	1	%	134487		11/16/04 1219	daj
7041	Antimony (GFAA) Antimony, Solid*	1.7		U	0.52	1.7	1	mg/Kg	135006		11/19/04 1944	daj
7841	Thallium (GFAA) Thallium, Solid*	0.71		U	0.22	0.71	1	mg/Kg	135008		11/19/04 2336	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.021		U	0.0054	0.021	1	mg/Kg	135393		11/23/04 1658	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6800			2.9	18	1	mg/Kg	135536		11/24/04 1757	tds
	Barium, Solid*	24			0.19	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Arsenic, Solid*	13			0.61	1.8	1	mg/Kg	135536		11/24/04 1757	tds
	Beryllium, Solid*	0.42		B	0.053	0.48	1	mg/Kg	135536		11/24/04 1757	tds
	Cadmium, Solid*	0.30		U	0.096	0.30	1	mg/Kg	135536		11/24/04 1757	tds
	Calcium, Solid*	810			3.7	12	1	mg/Kg	135536		11/24/04 1757	tds
	Chromium, Solid*	11			0.26	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Cobalt, Solid*	7.2			0.17	0.60	1	mg/Kg	135536		11/24/04 1757	tds
	Copper, Solid*	22			1.1	3.6	1	mg/Kg	135536		11/24/04 1757	tds
	Iron, Solid*	22000			3.6	12	1	mg/Kg	135536		11/24/04 1757	tds
	Magnesium, Solid*	2400			2.0	12	1	mg/Kg	135536		11/24/04 1757	tds
	Manganese, Solid*	260			0.16	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Nickel, Solid*	18			0.30	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Lead, Solid*	9.9			0.51	1.8	1	mg/Kg	135536		11/24/04 1757	tds
	Potassium, Solid*	970			16	60	1	mg/Kg	135536		11/24/04 1757	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USAGE SWAMP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-069-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 15:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-26  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.68	B		0.48	1.8	1	mg/Kg	135536		11/24/04 1757	tds
	Silver, Solid*	1.2	U		0.37	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Sodium, Solid*	350	B		100	360	1	mg/Kg	135536		11/24/04 1757	tds
	Vanadium, Solid*	11			0.25	1.2	1	mg/Kg	135536		11/24/04 1757	tds
	Zinc, Solid*	56			0.48	2.4	1	mg/Kg	135536		11/24/04 1757	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231912 Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc. ATTN: Eric Ellis

PROJECT: USACE RYAAP 14 AOCs

Customer Sample ID: LNWSb-069-S0 Laboratory Sample ID: 231912-26  
 Date Sampled.....: 11/10/2004 Date Received.....: 11/12/2004  
 Time Sampled.....: 15:15 Time Received.....: 09:15  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	210	U		8.8	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	83	U		17	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	210	U		19	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	210	U		18	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzyl alcohol, 3541 Low Solid*	830	U		92	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	83	U		13	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	210	U		20	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	83	U		16	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Hexachloroethane, 3541 Low Solid*	210	U		11	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	83	U		15	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Chlorophenol, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Nitrobenzene, 3541 Low Solid*	41	U		11	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	83	U		11	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	210	U		17	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzoic acid, 3541 Low Solid*	830	U	*	240	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Isophorone, 3541 Low Solid*	210	U		24	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	410	U		20	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Hexachlorobutadiene, 3541 Low Solid*	210	U		11	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Naphthalene, 3541 Low Solid*	41	U		10	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	410	U		19	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Chloroaniline, 3541 Low Solid*	830	U		67	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	210	U		46	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	410	U		56	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1200	U		380	1200	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Methylnaphthalene, 3541 Low Solid*	41	U		12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Nitroaniline, 3541 Low Solid*	210	U		13	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Chloronaphthalene, 3541 Low Solid*	210	U		19	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsb-069-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 15:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-26  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	410	U		43	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	41	U		11	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2-Nitrophenol, 3541 Low Solid*	410	U		18	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	3-Nitroaniline, 3541 Low Solid*	830	U		170	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Dimethyl phthalate, 3541 Low Solid*	83	U		11	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	830	U		130	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Acenaphthylene, 3541 Low Solid*	41	U		10	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	41	U		13	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Acenaphthene, 3541 Low Solid*	41	U		10	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Dibenzofuran, 3541 Low Solid*	83	U		11	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Nitrophenol, 3541 Low Solid*	830	U		260	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Fluorene, 3541 Low Solid*	41	U		11	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Nitroaniline, 3541 Low Solid*	830	U		56	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	210	U		12	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Hexachlorobenzene, 3541 Low Solid*	41	U		12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Diethyl phthalate, 3541 Low Solid*	83	U		12	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	210	U		12	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Pentachlorophenol, 3541 Low Solid*	410	U		140	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	41	U		13	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	830	U		210	830	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Phenanthrene, 3541 Low Solid*	62	U		19	62	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Anthracene, 3541 Low Solid*	41	U		14	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Carbazole, 3541 Low Solid*	210	U		15	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	210	U		14	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Fluoranthene, 3541 Low Solid*	41	U		13	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Pyrene, 3541 Low Solid*	62	U		15	62	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	83	U		13	83	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzo(a)anthracene, 3541 Low Solid*	41	U		12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Chrysene, 3541 Low Solid*	41	U		13	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/07/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVXAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LNWSb-069-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 15:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-26 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	210		U	18	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	210		U	40	210	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	410		U	13	410	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	41		U	11	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	41		U	12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzo(a)pyrene, 3541 Low Solid*	41		U	12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	41		U	13	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	41		U	12	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	41		U	14	41	1.00000	ug/Kg	136309		11/29/04 1158	dpk
Method	% Solids Determination											
	% Solids, Solid	79.8			0.10	0.10	1	%	134487		11/16/04 1219	daj
	% Moisture, Solid	20.2			0.10	0.10	1	%	134487		11/16/04 1219	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWSb-069-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 15:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-26  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOI	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135657		11/20/04 1850	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1850	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135657		11/20/04 1850	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1850	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135657		11/20/04 1850	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135657		11/20/04 1850	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135657		11/20/04 1850	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135657		11/20/04 1850	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: ATAsb-001M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 12:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-6  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	99.7			0.10	0.10	1	%	134211		11/13/04 1034	daj
	% Moisture, Solid	0.30			0.10	0.10	1	%	134211		11/13/04 1034	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.42	1.4	1	mg/Kg	134864		11/16/04 1317	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	134716		11/17/04 1229	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.011		B	0.0043	0.017	1	mg/Kg	135393		11/23/04 1326	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	2400			2.3	14	1	mg/Kg	135031		11/20/04 2157	lmr
	Barium, Solid*	15			0.15	0.96	1	mg/Kg	135031		11/20/04 2157	lmr
	Arsenic, Solid*	7.1			0.49	1.4	1	mg/Kg	135031		11/20/04 2157	lmr
	Beryllium, Solid*	0.18		B	0.042	0.38	1	mg/Kg	135031		11/20/04 2157	lmr
	Cadmium, Solid*	0.24		U	0.077	0.24	1	mg/Kg	135031		11/20/04 2157	lmr
	Calcium, Solid*	17000			3.0	9.6	1	mg/Kg	135031		11/20/04 2157	lmr
	Chromium, Solid*	28			0.21	0.96	1	mg/Kg	135031		11/20/04 2157	lmr
	Cobalt, Solid*	2.9			0.13	0.48	1	mg/Kg	135031		11/20/04 2157	lmr
	Copper, Solid*	14			0.86	2.9	1	mg/Kg	135031		11/20/04 2157	lmr
	Iron, Solid*	11000			2.9	9.6	1	mg/Kg	135031		11/20/04 2157	lmr
	Magnesium, Solid*	3500			1.6	9.6	1	mg/Kg	135031		11/20/04 2157	lmr
	Manganese, Solid*	210			0.12	0.96	1	mg/Kg	135031		11/20/04 2157	lmr
	Nickel, Solid*	15			0.24	0.96	1	mg/Kg	135031		11/20/04 2157	lmr
	Lead, Solid*	6.3			0.41	1.4	1	mg/Kg	135031		11/20/04 2157	lmr
	Potassium, Solid*	430			13	48	1	mg/Kg	135031		11/20/04 2157	lmc

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: ATAsb-001M-S0			Laboratory Sample ID: 231832-6									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 12:00			Time Received.....: 09:45									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	REL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.39	B		0.38	1.4	1	mg/Kg	135031		11/20/04 2157	Lmr
	Silver, Solid*	0.96	U		0.30	0.96	1	mg/Kg	135031		11/20/04 2157	Lmr
	Sodium, Solid*	130	B		83	290	1	mg/Kg	135031		11/20/04 2157	Lmr
	Vanadium, Solid*	5.1			0.20	0.96	1	mg/Kg	135031		11/20/04 2157	Lmr
	Zinc, Solid*	42			0.38	1.9	1	mg/Kg	135031		11/20/04 2157	Lmr

\* In Description = Dry Wgt.

Page 13

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: ATAsb-001M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 12:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-6 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135895		11/19/04 1158	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135895		11/19/04 1158	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135895		11/19/04 1158	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135895		11/19/04 1158	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1158	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135895		11/19/04 1158	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135895		11/19/04 1158	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1158	san

\* In Description = Dry Wgt.

Page 7

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: ATAsb-002M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 12:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-19  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	99.2			0.10	0.10	1	%	134211		11/13/04 1102	daj
	% Moisture, Solid	0.80			0.10	0.10	1	%	134211		11/13/04 1102	daj
7041	Antimony (GFAA) Antimony, Solid*	1.2		U	0.38	1.2	1	mg/Kg	134864		11/18/04 1632	daj
7841	Thallium (GFAA) Thallium, Solid*	0.52		U	0.17	0.52	1	mg/Kg	134716		11/17/04 1847	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.011		B	0.0043	0.017	1	mg/Kg	135393		11/23/04 1401	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	2900			2.3	15	1	mg/Kg	135031		11/20/04 2342	Lmr
	Barium, Solid*	17			0.16	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Arsenic, Solid*	6.5			0.50	1.5	1	mg/Kg	135031		11/20/04 2342	Lmr
	Beryllium, Solid*	0.22		B	0.043	0.39	1	mg/Kg	135031		11/20/04 2342	Lmr
	Cadmium, Solid*	0.24		U	0.078	0.24	1	mg/Kg	135031		11/20/04 2342	Lmr
	Calcium, Solid*	19000			3.0	9.7	1	mg/Kg	135031		11/20/04 2342	Lmr
	Chromium, Solid*	26			0.21	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Cobalt, Solid*	3.3			0.14	0.49	1	mg/Kg	135031		11/20/04 2342	Lmr
	Copper, Solid*	12			0.88	2.9	1	mg/Kg	135031		11/20/04 2342	Lmr
	Iron, Solid*	12000			2.9	9.7	1	mg/Kg	135031		11/20/04 2342	Lmr
	Magnesium, Solid*	3300			1.7	9.7	1	mg/Kg	135031		11/20/04 2342	Lmr
	Manganese, Solid*	240			0.13	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Nickel, Solid*	18			0.24	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Lead, Solid*	6.3			0.42	1.5	1	mg/Kg	135031		11/20/04 2342	Lmr
	Potassium, Solid*	500			13	49	1	mg/Kg	135031		11/20/04 2342	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKH Engineers, Inc.			PROJECT: USACE RVAAP 1A AOCs				ATTN: Eric Ellis					
Customer Sample ID: ATAsb-002M-SO Date Sampled.....: 11/08/2004 Time Sampled.....: 12:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-19 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.44	B		0.39	1.5	1	mg/Kg	135031		11/20/04 2342	Lmr
	Silver, Solid*	0.97	U		0.30	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Sodium, Solid*	130	B		84	290	1	mg/Kg	135031		11/20/04 2342	Lmr
	Vanadium, Solid*	5.9			0.20	0.97	1	mg/Kg	135031		11/20/04 2342	Lmr
	Zinc, Solid*	39			0.39	1.9	1	mg/Kg	135031		11/20/04 2342	Lmr

\* In Description = Dry Wgt.



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Job Number: 231832 LABORATORY TEST RESULTS Date: 12/02/2004

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

Customer Sample ID: ATAsb-002M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 12:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-19  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135895		11/19/04 1933	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135895		11/19/04 1933	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135895		11/19/04 1933	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135895		11/19/04 1933	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135895		11/19/04 1933	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135895		11/19/04 1933	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135895		11/19/04 1933	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san
3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135895		11/19/04 1933	san	

\* In Description = Dry Wgt.