OTHER ANALYTES WORK TABLE

257283

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil		Soil		Soil		Soil		Soil	
	Client ID:	MB0010		MB0011		MB0012		MB0013		MB0014	
	Lab ID:	R2786-10		R2786-11		R2786-12		R2786-13		R2786-14	
Percent Solids		84.1		83.2		85.9		82.3		82.7	
Dilution Factor	IDL	1.0		1.0		1.0		1.0		1.0	
		DM3-10E		**DM3-10N**		**DM3-10S**		**DM3-10W**		**DM3-5E**	
Arsenic	0.60	32.6		22.6		21.4		11.6		15.8	
Barium	0.06	502	J	121	J	324	J	231	J	203	J
Cadmium	0.06	15.1		518		21.9		29.0		34.7	
Chromium	0.16	144	J	51.3	J	44.1	J	59.8	J	54.4	J
Lead	0.24	1240		3730		1140		1000		1150	
Mercury	0.05	1.1		* 23.6		1.0		0.95		1.1	
Selenium	0.60	R		R		R		R		R	
Silver	0.16	2.5		11.9		1.3	B	1.7	B	11.0	

* Hg: 5 x D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
U - non-detected compound
J - estimated value
B - between the instrument detection limit (IDL)
and the contract required detection limit (CRDL)
R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil		Soil		Soil		Soil		
	Client ID:	MB0015		MB0016		MB0017		MB0018		
	Lab ID:	R2786-15		R2786-16		R2786-17		R2786-18		
Percent Solids		75.9		82.4		81.6		82.1		
Dilution Factor	IDL	1.0		1.0		1.0		1.0		
Location		**DM3-5N**		**DM3-5S**		**Dm3-5W**		**DM3-Center**		
Arsenic	0.60	43.1		14.1		22.9		17.5		
Barium	0.06	245	J	158	J	86.2	J	89.6	J	
Cadmium	0.06	1080		180		403		352		
Chromium	0.16	154	J	61.0	J	34.0	J	30.6	J	
Lead	0.24	* 10000		1700		2070		1890		
Mercury	0.05	** 53.1		2.6		* 9.9		* 9.0		
Selenium	0.60	R		R		R		R		
Silver	0.16	12.5		2.2	B	3.4		2.9		

* Pb: 2 X D/F
** Hg: 10 X D/F

* Hg: 4 X D/F

* Hg: 2 X D/F

Inorganic Qualifiers

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OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil		Soil		Soil		Soil		Soil	
	Client ID:	MB0001		MB0002		MB0003		MB0004		MB0005	
	Lab ID:	R2786-1		R2786-2		R2786-3		R2786-4		R2786-5	
Percent Solids		82.4		88.5		84.3		86.2		82.4	
Dilution Factor	IDL	1.0		1.0		1.0		1.0		1.0	
Location		**DM2-10E**		**DM2-10N**		**DM2-10S**		**DM2-10W**		**DM2-5E**	
Arsenic	0.60	69.1		24.6		7.2		21.4		27.5	
Barium	0.06	1120	J	244	J	117	J	309	J	319	J
Cadmium	0.06	3.2		1.9		0.94	B	1.4		1.9	
Chromium	0.16	67.2	J	71.7	J	17.6	J	138	J	48.6	J
Lead	0.24	1590		1730		1220		1150		1910	
Mercury	0.05	4.5		1.0		0.59		1.2		1.3	
Selenium	0.60	R		R		R		R		R	
Silver	0.16	2.8		1.4	B	0.37	B	1.4	B	1.3	B

* Fe: 2 X D/F

Inorganic Qualifiers

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and the contract required detection limit (CRDL)
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OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil	Soil	Soil	Soil	Soil
	Client ID:	MB0006	MB0007	MB0008	MB0009	MB0009D
	Lab ID:	R2786-6	R2786-7	R2786-8	R2786-9	R2786-19
Percent Solids		100.0	85.8	84.4	86.3	82.8
Dilution Factor	IDL	1.0	1.0	1.0	1.0	1.0
Location		**DM2-5N**	**DM2-5S**	**DM2-5W**	**DM2-Center**	**DM2-Center**
Arsenic	0.60	25.2	20.1	24.0	46.6	23.1
Barium	0.06	332 J	744 J	1710 J	495 J	239 J
Cadmium	0.06	2.4	5.6	41.9	1.9	2.2
Chromium	0.16	70.4 J	45.2 J	37.6 J	64.7 J	58.4 J
Lead	0.24	2700	* 14500	* 12800	2070	1690
Mercury	0.05	1.0	3.4	1.7	0.87	1.1
Selenium	0.60	R	R	R	R	R
Silver	0.16	3.1	2.2	3.2	3.7	1.6 B

* Cu: 2 X D/F * Pb: 2 X D/F * Pb: 20 X D/F
* Zn: 2 X D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
U - non-detected compound
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B - between the instrument detection limit (IDL)
and the contract required detection limit (CRDL)
R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil	Soil	Soil	Soil	Soil
	Client ID:	**MB0010**	**MB0011**	**MB0012**	**MB0013**	**MB0014**
	Lab ID:	R2786-10	R2786-11	R2786-12	R2786-13	R2786-14
Percent Solids		84.1	83.2	85.9	82.3	82.7
Dilution Factor	IDL	1.0	1.0	1.0	1.0	1.0
		DM3-10E	**DM3-10N**	**DM3-10S**	**DM3-10W**	**DM3-5E**
Arsenic	0.60	32.6	22.6	21.4	11.6	15.8
Barium	0.06	502 J	121 J	324 J	231 J	203 J
Cadmium	0.06	15.1	518	21.9	29.0	34.7
Chromium	0.16	144 J	51.3 J	44.1 J	59.8 J	54.4 J
Lead	0.24	1240	3730	1140	1000	1150
Mercury	0.05	1.1	* 23.6	1.0	0.95	1.1
Selenium	0.60	R	R	R	R	R
Silver	0.16	2.5	11.9	1.3 B	1.7 B	11.0

* Hg: 5 x D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
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J - estimated value
B - between the instrument detection limit (IDL)
and the contract required detection limit (CRDL)
R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil	Soil	Soil	Soil	
	Client ID:	MB0015	MB0016	MB0017	MB0018	
	Lab ID:	R2786-15	R2786-16	R2786-17	R2786-18	
Percent Solids		75.9	82.4	81.6	82.1	
Dilution Factor	IDL	1.0	1.0	1.0	1.0	
Location		**DM3-5N**	**DM3-5S**	**Dm3-5W**	**DM3-Center**	
Arsenic	0.60	43.1	14.1	22.9	17.5	
Barium	0.06	245 J	158 J	86.2 J	89.6 J	
Cadmium	0.06	1080	180	403	352	
Chromium	0.16	154 J	61.0 J	34.0 J	30.6 J	
Lead	0.24	* 10000	1700	2070	1890	
Mercury	0.05	** 53.1	2.6	* 9.9	* 9.0	
Selenium	0.60	R	R	R	R	
Silver	0.16	12.5	2.2 B	3.4	2.9	

* Pb: 2 X D/F
** Hg: 10 X D/F
* Hg: 4 X D/F
* Hg: 2 X D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
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OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil		Soil		Soil		Soil		Soil	
	Client ID:	MB0001		MB0002		MB0003		MB0004		MB0005	
	Lab ID:	R2786-1		R2786-2		R2786-3		R2786-4		R2786-5	
Percent Solids		82.4		88.5		84.3		86.2		82.4	
Dilution Factor	IDL	1.0		1.0		1.0		1.0		1.0	
Location		**DM2-10E**		**DM2-10N**		**DM2-10S**		**DM2-10W**		**DM2-5E**	
Arsenic	0.60	69.1		24.6		7.2		21.4		27.5	
Barium	0.06	1120	J	244	J	117	J	309	J	319	J
Cadmium	0.06	3.2		1.9		0.94	B	1.4		1.9	
Chromium	0.16	67.2	J	71.7	J	17.6	J	138	J	48.6	J
Lead	0.24	1590		1730		1220		1150		1910	
Mercury	0.05	4.5		1.0		0.59		1.2		1.3	
Selenium	0.60	R		R		R		R		R	
Silver	0.16	2.8		1.4	B	0.37	B	1.4	B	1.3	B

* Fe: 2 X D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
U - non-detected compound
J - estimated value
B - between the instrument detection limit (IDL)
and the contract required detection limit (CRDL)
R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Duane Marine Site

Sampling Date: November 07, 2002

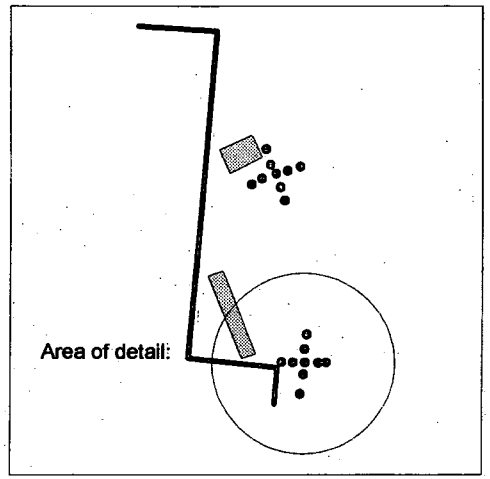
SAMPLE #/CONCENTRATION (MG/KG)

Total Metals	Matrix:	Soil		Soil		Soil		Soil		Soil	
	Client ID:	**MB0006**		**MB0007**		**MB0008**		**MB0009**		**MB0009D**	
	Lab ID:	R2786-6		R2786-7		R2786-8		R2786-9		R2786-19	
Percent Solids		100.0		85.8		84.4		86.3		82.8	
Dilution Factor	IDL	1.0		1.0		1.0		1.0		1.0	
Location		**DM2-5N**		**DM2-5S**		**DM2-5W**		**DM2-Center**		**DM2-Center**	
Arsenic	0.60	25.2		20.1		24.0		46.6		23.1	
Barium	0.06	332	J	744	J	1710	J	495	J	239	J
Cadmium	0.06	2.4		5.6		41.9		1.9		2.2	
Chromium	0.16	70.4	J	45.2	J	37.6	J	64.7	J	58.4	J
Lead	0.24	2700		* 14500		* 12800		2070		1690	
Mercury	0.05	1.0		3.4		1.7		0.87		1.1	
Selenium	0.60	R		R		R		R		R	
Silver	0.16	3.1		2.2		3.2		3.7		1.6	B

* Cu: 2 X D/F * Pb: 2 X D/F * Pb: 20 X D/F
* Zn: 2 X D/F

Inorganic Qualifiers

IDL - Instrument Detection Limit
U - non-detected compound
J - estimated value
B - between the instrument detection limit (IDL)
and the contract required detection limit (CRDL)
R - rejected compound



N

DM-2-10N

PCBs	66.0
Arsenic	24.6
Barium	244 J
Cadmium	1.9
Chromium	71.7 J
Lead	1730
Mercury	1.0
Selenium	R
Silver	1.4 B

DM-2-5N

PCBs	49.0
Arsenic	25.2
Barium	332 J
Cadmium	2.4
Chromium	70.4 J
Lead	2700
Mercury	1.0
Selenium	R
Silver	3.1

DM-2-C

PCBs	30.0
Arsenic	46.6
Barium	495 J
Cadmium	1.9
Chromium	64.7 J
Lead	2070
Mercury	0.87
Selenium	R
Silver	3.7

DM-2-C (Dup)

PCBs	73.0
Arsenic	23.1
Barium	239 J
Cadmium	2.2
Chromium	58.4 J
Lead	1690
Mercury	1.1
Selenium	R
Silver	1.6 B

DM-2-10W

PCBs	8.60
Arsenic	21.4
Barium	309 J
Cadmium	1.4
Chromium	138 J
Lead	1150
Mercury	1.2
Selenium	R
Silver	1.4 B

DM-2-5W

PCBs	7.90
Arsenic	24.0
Barium	1710 J
Cadmium	41.9
Chromium	37.6 J
Lead	128000
Mercury	1.7
Selenium	R
Silver	3.2

DM-2-10E

PCBs	48.0
Arsenic	69.1
Barium	1120 J
Cadmium	3.2
Chromium	67.2 J
Lead	1590
Mercury	4.5
Selenium	R
Silver	2.8

DM-2-5E

PCBs	14.0
Arsenic	27.5
Barium	319 J
Cadmium	1.9
Chromium	48.6 J
Lead	1910
Mercury	1.3
Selenium	R
Silver	1.3 B

DM-2-5S

PCBs	75.0
Arsenic	20.1
Barium	744 J
Cadmium	5.6
Chromium	45.2 J
Lead	14500
Mercury	3.4
Selenium	R
Silver	2.2

DM-2-10S

PCBs	8.10
Arsenic	7.2
Barium	117 J
Cadmium	0.94 B
Chromium	17.6 J
Lead	1220
Mercury	0.59
Selenium	R
Silver	0.37 B

Note:

PCB and metal concentrations are expressed in parts per million (ppm).

"J" data qualifier indicates an estimated value.

"B" data qualifier indicates results are between the instrument detection limit and the contract required detection limit.

"R" data qualifier indicates the data were rejected.

30 0 30 60 Feet

DM-2-10N ● RST sampling locations

66.0 Contaminant concentration

RST SAMPLE LOCATIONS
DUANE MARINE SITE
PERTH AMBOY, NEW JERSEY

Weston Solutions, Inc.
FEDERAL PROGRAMS DIVISION

IN ASSOCIATION WITH RESOURCE APPLICATIONS, INC., INNOVATIVE TECHNOLOGICAL SOLUTIONS, INC., AND SCIENTIFIC AND ENVIRONMENTAL ASSOCIATES, INC.

US ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM
CONTRACT # 68-W-00-113

DRAWN BY: C. Metzger
EPA ON-SCENE COORDINATOR: J. Cosentino
RST SITE PROJECT MANAGER: P. Potvin
FILE: D:\DWG\DUANEMAR.APR

	Res	Non Res	Ind Reg III Res.
AR	20	20	380 43
Ba	700	47,000	140,000 5,500
Cd	39	100	
Cr		600	
Pb	400	270	
Hg	14		