

Table B24-1
Summary of Chemical Constituents Detected in Soil at SWMU B-24, March 2000

	Soil Comparison Criteria												Soil Comparison Criteria																	
	Background ^a						RRS2-GWP (Ind.)						RRS2-SAI (Ind.)						Background ^a						RRS2-GWP (Ind.)					
	Lab MDL	Lab RL	Soil	Background ^a GR	GR	Ind.	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL				
	Sample ID	Sample Date	Sample Type	Soil Type	Beginning Depth	Ending Depth	Lab ID	B24-SB01	03/29/00	N1	B24-SB01	03/29/00	N1	GR	B24-SB01	03/29/00	N1	GR	B24-SB02	03/29/00	N1	Soil (Kr)	B24-SB02	03/29/00	N1	Soil (Kr)				
				Soil (Kr)	0	0.5								9.5								0				0.5				
							AP90458/00C00759							10								AP90460/00C00761				AP90461/00C00762				
SW6010B (mg/kg)																														
Barium	0.08	1.0	186	10.	200	59,000	62.69	J	1	1.0	7.41	J	1	1.0	10.08	J	1	1.0	66.93	J	1	1.0								
Chromium	0.1	20.0	40.2	8.1	10	350,000	17.1	F	1	20.0	7.9	F	1	20.0	11.1	F	1	20.0	22.2		1	20.0								
Copper	0.19	2.0	23.2	13.1	130	74,000	13.45		1	2.0	3.45		1	2.0	6.62		1	2.0	13.19		1	2.0								
Nickel	0.12	2.0	35.5	6.8	200	12,000	9.59	J	1	2.0	3.33	J	1	2.0	5.13	J	1	2.0	11.35	J	1	2.0								
Zinc	0.63	5.0	73.2	11.3	3,100	41,000	32.95		1	5.0	10.36		1	5.0	7.33		1	5.0	28.98		1	5.0								
SW7060A (mg/kg)																														
Arsenic	0.04	0.5	19.6	3.8	5.	200	2.23		1	0.5	0.04	U	1	0.5	0.65		1	0.5	2.96		1	0.5								
SW7131A (mg/kg)																														
Cadmium	0.01	0.1	3.	0.1	0.5	410	0.19		1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.21		1	0.1								
SW7421 (mg/kg)																														
Lead	0.13	0.5	84.5	5.5	1.5	1,000	19.39	J	5	2.5	2.21	J	1	0.5	6.12	J	5	2.5	20.16	J	5	2.5								
SW7471A (mg/kg)																														
Mercury	0.01	0.1	0.77	0.1	0.2	9.6	0.02	F	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.02	F	1	0.1								
SW8260B (mg/kg)																														
Benzene	0.0003	0.002	--	--	0.5	1.5	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0004	F	1	0.002	0.0003	U	1	0.002								
Butylbenzene, N-	0.0006	0.005	--	--	NA	NA	0.0008	F	1	0.005	0.0006	U	1	0.005	0.0008	F	1	0.005	0.0006	U	1	0.005								
Methylene chloride	0.0007	0.005	--	--	0.5	16	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0115	1	0.005									
Naphthalene	0.001	0.02	--	--	200	270	0.002	F	1	0.02	0.001	U	1	0.02	0.002	F	1	0.02	0.003	F	1	0.02								
Tetrachloroethene	0.0005	0.007	--	--	0.5	17	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0005	U	1	0.007								
Toluene	0.0003	0.005	--	--	100	2,400	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005								
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	--	NA	NA	0.0019	F	1	0.004	0.0011	F	1	0.004	0.0018	F	1	0.004	0.0015	F	1	0.004								
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	6,100	0.0016	F	1	0.004	0.0009	F	1	0.004	0.0019	F	1	0.004	0.0014	F	1	0.004								
SW8270C (mg/kg)																														
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65	0.16	F	1	0.7	2.20	1	0.7		0.03	U	1	0.7	0.04	F	1	0.7								
Di-n-butylphthalate	0.04	0.7	--	--	1,000	100,000	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7								
SW8330 (mg/kg)																														
Dinitrotoluene, 2,4-	0.027	0.25	--	--	0.042	4.2	0.027	U	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25								

Tables present all laboratory results for analytes detected above the method detection limit.

Results from all laboratory analysis are presented in Appendix B.

All samples were analyzed by APPL Inc. and DataChem Laboratories.

Referenced laboratory package numbers: APPL Inc.: 32326, 32337

DataChem: 79-01, 80-01

All MS/MSD results are presented in the Data Verification Report, Appendix E.

Data Qualifiers:

B- The analyte was found in an associated blank, as well as in the sample

F- The analyte was positively identified, but the associated numerical value is below the RL.

J- The analyte was positively identified, the quantitation is an estimation.

M- A matrix effect was present.

R- The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

U- The analyte was analyzed for, but not detected. The associated numerical value is the MDL.

Abbreviations and Notes:

Highlighted and bolded sample concentrations exceed RRS1 (background) Standards.

Boxed samples indicate results greater than RRS2 Standards.

-- No risk reduction standard or background level available

a Background values from Revised Background Report, 2001

DL Dilution

FD1 Field Duplicate

GR Glen Rose

GWP-Ind Soil MSC based on groundwater protection

Kr Krum Complex

MDL Method Detection Limit

N1 Environmental Sample

NA Not Available

RL Reporting Limit

SAI-Ind Soil MSC for industrial use based on inhalation, ingestion, and dermal contact

SQL Sample Quantitation Limit

Table B24-1
Summary of Chemical Constituents Detected in Soil at SWMU B-24, March 2000

	Soil Comparison Criteria		Lab ID	Sample ID	B24-SB02	B24-SB02	B24-SB03	B24-SB03											
	Lab MDL	Lab RL		Background ^a	RRS2-GWP (Ind.)	RRS2-SAI (Ind.)	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	
	SW6010B (mg/kg)																		
	Barium	0.08	1.0	186	10.	200	59,000	5.94	J	1	1.0	7.8	J	1	1.0	116.25	J	1	1.0
	Chromium	0.1	20.0	40.2	8.1	10	350,000	6.5	F	1	20.0	7.0	F	1	20.0	31.1	1	20.0	30.8
	Copper	0.19	2.0	23.2	13.1	130	74,000	2.89		1	2.0	4.57		1	2.0	17.07	1	2.0	16.26
	Nickel	0.12	2.0	35.5	6.8	200	12,000	2.79	J	1	2.0	4.75	J	1	2.0	15.82	J	1	2.0
	Zinc	0.63	5.0	73.2	11.3	3,100	41,000	7.46		1	5.0	9.58		1	5.0	39.08	1	5.0	35.86
SW7060A (mg/kg)																			
Arsenic	0.04	0.5	19.6	3.8	5.	200		0.04	U	1	0.5	0.04	U	1	0.5	3.60	J	1	0.5
SW7131A (mg/kg)																			
Cadmium	0.01	0.1	3.	0.1	0.5	410		0.01	U	1	0.1	0.01	U	1	0.1	0.28	J	1	0.1
SW7421 (mg/kg)																			
Lead	0.13	0.5	84.5	5.5	1.5	1,000		1.93	J	1	0.5	2.18	J	1	0.5	28.56	J	10	5.0
SW7471A (mg/kg)																			
Mercury	0.01	0.1	0.77	0.1	0.2	9.6		0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1
SW8260B (mg/kg)																			
Benzene	0.0003	0.002	--	--	0.5	1.5	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	
Butylbenzene, N-	0.0006	0.005	--	--	NA	NA	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005	
Methylene chloride	0.0007	0.005	--	--	0.5	16	0.0094	1 0.005	0.0075	1 0.005	0.0101	B	1 0.005	0.0081	B	1 0.005			
Naphthalene	0.001	0.02	--	--	200	270	0.0005	F	1	0.02	0.0005	F	1	0.02	0.001	U	1	0.02	
Tetrachloroethene	0.0005	0.007	--	--	0.5	17	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0011	F	1	0.007	
Toluene	0.0003	0.005	--	--	100	2,400	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	--	NA	NA	0.0013	F	1	0.004	0.0013	F	1	0.004	0.0008	U	1	0.004	
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	6,100	0.0010	F	1	0.004	0.0009	F	1	0.004	0.0006	U	1	0.004	
SW8270C (mg/kg)																			
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65		1.40	1 0.7		0.22	F	1	0.7	0.05	F	1	0.7	
Di-n-butylphthalate	0.04	0.7	--	--	1,000	100,000		0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
SW8330 (mg/kg)																			
Dinitrotoluene, 2,4-	0.027	0.25	--	--	0.042	4.2		0.027	U	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25

Tables present all laboratory results for analytes detected above the method detection limit.

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DataChem: 79-01, 80-01

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Abbreviations and Notes:

Highlighted and bolded sample concentrations exceed RRS1 (background) Standards.

Boxed samples indicate results greater than RRS2 Standards.

-- No risk reduction standard or background level available

a Background values from Revised Background Report, 2001

DL Dilution

FD1 Field Duplicate

GR Glen Rose

GWP-Ind Soil MSC based on groundwater protection

Kr Krum Complex

MDL Method Detection Limit

N1 Environmental Sample

NA Not Available

RL Reporting Limit

SAI-Ind Soil MSC for industrial use based on inhalation, ingestion, and dermal contact

SQL Sample Quantitation Limit

Table B24-1
Summary of Chemical Constituents Detected in Soil at SWMU B-24, March 2000

	Soil Comparison Criteria		Sample ID B24-SB03 Sample Date 03/30/00 Sample Type N1 Soil Type GR Beginning Depth 11.5 Ending Depth 12 Lab ID AP90502/00C00767																			
	Background ^a Lab MDL	Background ^a Lab RL	Soil	Background ^a GR (Ind.)	RRS2-GWP (Ind.)	RRS2-SAI (Ind.)	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL				
	SW6010B (mg/kg)																					
	Barium	0.08	1.0	186	10.	200	59,000	4.56	J	1	1.0	6.52	J	1	1.0	47.45	J	1	1.0			
	Chromium	0.1	20.0	40.2	8.1	10	350,000	2.8	F	1	20.0	7.6	F	1	20.0	11.3	F	1	20.0			
	Copper	0.19	2.0	23.2	13.1	130	74,000	1.8	F	1	2.0	2.8		1	2.0	4.68		1	2.0			
	Nickel	0.12	2.0	35.5	6.8	200	12,000	2.83	J	1	2.0	3.09	J	1	2.0	5.79	J	1	2.0			
	Zinc	0.63	5.0	73.2	11.3	3,100	41,000	5.73		1	5.0	6.26		1	5.0	12.74		1	5.0			
SW7060A (mg/kg)																						
Arsenic	0.04	0.5	19.6	3.8	5.	200		0.04	R	1	0.5	0.04	R	1	0.5	0.04	R	1	0.5			
SW7131A (mg/kg)																						
Cadmium	0.01	0.1	3.	0.1	0.5	410		0.01	R	1	0.1	0.01	R	1	0.1	0.08	F	1	0.1			
SW7421 (mg/kg)																						
Lead	0.13	0.5	84.5	5.5	1.5	1,000		0.50	J	1	0.5	1.55	J	1	0.5	5.80	J	5	2.5			
SW7471A (mg/kg)																						
Mercury	0.01	0.1	0.77	0.1	0.2	9.6		0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1			
SW8260B (mg/kg)																						
Benzene	0.0003	0.002	--	--	0.5	1.5	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002				
Butylbenzene, N-	0.0006	0.005	--	--	NA	NA	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005				
Methylene chloride	0.0007	0.005	--	--	0.5	16	0.0059	B	1	0.005	0.0056	B	1	0.005	0.0053	B	1	0.005				
Naphthalene	0.001	0.02	--	--	200	270	0.0001	U	1	0.02	0.0001	U	1	0.02	0.0001	U	1	0.02				
Tetrachloroethene	0.0005	0.007	--	--	0.5	17	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0005	U	1	0.007				
Toluene	0.0003	0.005	--	--	100	2,400	0.0003	U	1	0.005	0.0004	F	1	0.005	0.0003	U	1	0.005				
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	--	NA	NA	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004				
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	6,100	0.0006	U	1	0.004	0.0006	U	1	0.004	0.0006	U	1	0.004				
SW8270C (mg/kg)																						
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65	13.00	10	7.0	2.20	1	0.7		0.03	U	1	0.7	27.00	20	14		
Di-n-butylphthalate	0.04	0.7	--	--	1,000	100,000	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.06	F	1	0.7
SW8330 (mg/kg)																						
Dinitrotoluene, 2,4-	0.027	0.25	--	--	0.042	4.2	0.027	U	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25

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Highlighted and bolded sample concentrations exceed RRS1 (background) Standards.

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GWP-Ind Soil MSC based on groundwater protection

Kr Krum Complex

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N1 Environmental Sample

NA Not Available

RL Reporting Limit

SAI-Ind Soil MSC for industrial use based on inhalation, ingestion, and dermal contact

SQL Sample Quantitation Limit

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Summary of Chemical Constituents Detected in Soil at SWMU B-24, March 2000

	Sample ID		B24-SB04	B24-SB05		B24-SB05		B24-SB05		B24-SB05												
	Sample Date	03/30/00	Sample Date	03/30/00	Sample Date	03/30/00	Sample Date	03/30/00	Sample Date	03/30/00	Sample Date											
	Sample Type	N1	Sample Type	N1	Sample Type	N1	Sample Type	FD1	Sample Type	N1	Sample Type											
	Soil Type	GR	Soil Type	Soil (Kr)	Soil Type	GR	Soil Type	GR	Soil Type	GR	Soil Type											
	Beginning Depth	18	Beginning Depth	0	Beginning Depth	12	Beginning Depth	14	Beginning Depth	12	Beginning Depth											
	Ending Depth	18.5	Ending Depth	0.5	Ending Depth	14	Ending Depth	14	Ending Depth	14	Ending Depth											
	Lab ID		AP90506/00C00771		AP90507/00C00772		AP90509/00C00773		AP90512/00C00774		AP90513/00C00775											
	Soil Comparison Criteria																					
	Background ^a Lab MDL	Background ^a Lab RL	Soil Soil	Background ^a GR	RRS2-GWP (Ind.)	RRS2-SAI (Ind.)	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
SW6010B (mg/kg)																						
Barium	0.08	1.0	186	10.	200	59,000	4.5	J	1	1.0	118.78	J	1	1.0	8.53	J	1	1.0	7.72	J	1	1.0
Chromium	0.1	20.0	40.2	8.1	10	350,000	4.5	F	1	20.0	30.5	1	20.0	7.6	F	1	20.0	7.1	F	1	20.0	
Copper	0.19	2.0	23.2	13.1	130	74,000	2.6		1	2.0	20.5	1	2.0	3.09		1	2.0	3.11		1	2.0	
Nickel	0.12	2.0	35.5	6.8	200	12,000	3.12	J	1	2.0	16.15	J	1	2.0	5.21	M	1	2.0	4.63	M	1	2.0
Zinc	0.63	5.0	73.2	11.3	3,100	41,000	5.11		1	5.0	44.01	1	5.0	8.47		1	5.0	10.24		1	5.0	
SW7060A (mg/kg)																						
Arsenic	0.04	0.5	19.6	3.8	5.	200	0.04	R	1	0.5	0.71	J	1	0.5	0.04	R	1	0.5	0.16	F	1	0.5
SW7131A (mg/kg)																						
Cadmium	0.01	0.1	3.	0.1	0.5	410	0.01	R	1	0.1	0.24	J	1	0.1	0.01	R	1	0.1	0.01	R	1	0.1
SW7421 (mg/kg)																						
Lead	0.13	0.5	84.5	5.5	1.5	1,000	1.30	J	1	0.5	42.94	J	10	5.0	3.05	M	1	0.5	2.18	M	1	0.5
SW7471A (mg/kg)																						
Mercury	0.01	0.1	0.77	0.1	0.2	9.6	0.01	U	1	0.1	0.03	F	1	0.1	0.06	F	1	0.1	0.01	U	1	0.1
SW8260B (mg/kg)																						
Benzene	0.0003	0.002	--	--	0.5	1.5	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0004	F	1	0.002
Butylbenzene, N-	0.0006	0.005	--	--	NA	NA	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	M	1	0.005	0.0006	U	1	0.005
Methylene chloride	0.0007	0.005	--	--	0.5	16	0.0038	F	1	0.005	0.0053	B	1	0.005	0.0049	F	1	0.005	0.0037	F	1	0.005
Naphthalene	0.001	0.02	--	--	200	270	0.001	U	1	0.02	0.001	U	1	0.02	0.001	M	1	0.02	0.001	M	1	0.02
Tetrachloroethene	0.0005	0.007	--	--	0.5	17	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0005	U	1	0.007	0.0005	U	1	0.007
Toluene	0.0003	0.005	--	--	100	2,400	0.0011	F	1	0.005	0.0075	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	--	NA	NA	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	M	1	0.004	0.0008	M	1	0.004
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	6,100	0.0006	U	1	0.004	0.0006	U	1	0.004	0.0006	M	1	0.004	0.0006	U	1	0.004
SW8270C (mg/kg)																						
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65	2.00	1	0.7	0.03	U	1	0.7	14.00	M	10	7.0	0.26	M	1	0.7	
Di-n-butylphthalate	0.04	0.7	--	--	1,000	100,000	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
SW8330 (mg/kg)																						
Dinitrotoluene, 2,4-	0.027	0.25	--	--	0.042	4.2	0.027	U	1	0.25	0.328	1	0.25	0.027	U	1	0.25	0.027	U	1	0.25	

Tables present all laboratory results for analytes detected above the method detection limit.

Results from all laboratory analysis are presented in Appendix B.

All samples were analyzed by APPL Inc. and DataChem Laboratories.

Referenced laboratory package numbers: APPL Inc.: 32326, 32337

DataChem: 79-01, 80-01

All MS/MSD results are presented in the Data Verification Report, Appendix E.

Data Qualifiers:

B- The analyte was found in an associated blank, as well as in the sample

F- The analyte was positively identified but the associated numerical value is below the RL.

J- The analyte was positively identified, the quantitation is an estimation.

M- A matrix effect was present.

R- The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

U- The analyte was analyzed for, but not detected. The associated numerical value is the MDL.