

Table Bldg43-3
Summary of Chemical Constituents Detected in Soil, March 2000
Solid Waste Management Unit Building 43

Sample ID Sample Date Sample Type Soil Type Beginning Depth Ending Depth Lab ID	Soil Comparison Criteria						BLDG43-SB01 03/01/00 FD1 Soil 0.5 1 AP89263 / AP89354				BLDG43-SB01 03/01/00 N1 Soil 0.5 1 AP89261 / AP89353				BLDG43-SB01 03/01/00 N1 GR 9.5 10 AP89264				BLDG43-SB01 03/01/00 N1 GR 0.5 1 AP89265				BLDG43-SB02 03/01/00 N1 GR 8.5 9 AP89266				BLDG43-SB02 03/01/00 N1 GR 8.5 9 AP89273				BLDG43-SB02 03/01/00 N1 GR 12.5 13 AP89274							
	Lab MDL	Lab RL	Background ^a 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	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL								
	SW6010B (mg/kg)	0.08	1.0	186	10.	200	59,000	105.62	J	1	1.0	148.45	J	5	5.0	6.4	J	1	1.0	7.13	J	1	1.0	124.91	J	50	50.0	6.19	J	1	1.0	5.92	J	1	1.0			
Barium	0.1	20.0	40.2	8.1	10	350,000	17.5	F	1	20.0	18.7	F	5	100.0	5.9	F	1	20.0	6.7	F	1	20.0	16.8	F	50	1,000.0	4.0	F	1	20.0	4.3	F	1	20.0				
Chromium	0.19	2.0	23.2	13.1	130	74,000	178.85	J	1	2.0	550.07	J	5	10.0	2.64	J	1	2.0	2.67	J	1	2.0	3,085.47	J	50	100.0	2.85	J	1	2.0	2.9	J	1	2.0				
Copper	0.12	2.0	35.5	6.8	200	12,000	10.95	J	1	2.0	13.59	J	5	10.0	2.19	J	1	2.0	5.23	J	1	2.0	17.83	F	50	100.0	4.82	J	1	2.0	4.74	J	1	2.0				
Nickel	0.63	5.0	73.2	11.3	3,100	41,000	154.32	J	1	5.0	461.19	J	5	25.0	5.97	J	1	5.0	5.61	J	1	5.0	1,511.12	J	50	250.0	4.57	F	1	5.0	6.86	J	1	5.0				
Zinc																																						
SW7060A (mg/kg)	0.04	0.5	19.6	3.8	5	200	2.99	J	1	0.5	2.92	J	1	0.5	0.04	U	1	0.5	1.20	J	1	0.5	2.96	J	1	0.5	0.04	J	1	0.5	1.15	J	1	0.5				
Arsenic																																						
SW7131A (mg/kg)	0.01	0.1	3.	0.1	0.5	410	0.69	J	5	0.5	1.11	J	5	0.5	0.01	U	1	0.1	0.01	J	1	0.1	2.38	J	10	1.0	0.01	U	1	0.1	0.03	F	1	0.1				
Cadmium																																						
SW7421 (mg/kg)	0.13	0.5	84.5	5.5	1.5	1,000	224.77	J	50	25.0	320.0	J	250	125.0	0.62	J	1	0.5	3.29	J	1	0.5	247.7	J	50	25.0	0.95	J	1	0.5	2.39	J	1	0.5				
Lead																																						
SW7471A (mg/kg)	0.01	0.1	0.77	0.1	0.2	9.6	0.04	F	1	0.1	0.03	F	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.24	J	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1				
Mercury																																						
SW8260B (mg/kg)	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	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0018	F	1	0.002	0.0003	U	1	0.002				
Benzene	0.0006	0.005	--	--	NA	NA	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0009	F	1	0.005	0.0006	U	1	0.005				
Buylbenzene, N-	0.0003	0.002	--	--	10	0.51	0.0003	F	1	0.002	0.0003	F	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0007	F	1	0.002	0.0003	U	1	0.002	0.0003	B	1	0.002				
Chloroform	0.0008	0.005	--	--	2,000	3,100	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0176	F	1	0.005				
Dichlorodifluoromethane	0.0004	0.003	--	--	70	6,900	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0089	1	0.003	0.0004	U	1	0.003	
Ethylbenzene	0.0005	0.006	--	--	NA	NA	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0008	F	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006				
Isopropyltoluene, 4-(Cymene, p-)	0.0007	0.005	--	--	0.5	16	0.0007	J	1	0.005	0.0007	J	1	0.005	0.0007	J	1	0.005	0.0007	J	1	0.005	0.0007	J	1	0.005	0.0007	J	1	0.005	0.0007	J	1	0.005				
Methylene chloride	0.001	0.02	--	--	200	270	0.001	U	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020				
Naphthalene	0.0008	0.002	--	--	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0018	F	1	0.002	0.0008	U	1	0.002		
Propylbenzene, N-	0.0003	0.005	--	--	100	2,400	0.0003	U	1	0.005	0.0003	F	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0068	1	0.005	0.0003	U	1	0.005	
Toluene	0.0008	0.004	--	--	NA	NA	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004				
Trichlorobenzene, 1,2,3-	0.0004	0.007	--	--	NA	NA	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0011	F	1	0.007	0.0004	U	1	0.007
Trimethylbenzene, 1,2,4-	0.0008	0.007	--	--	1,000		0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0015	F	1	0.007	0.0008	U	1	0.007
Xylene, m,p-	0.0004	0.005	--	--	1,000		0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0007	F	1	0.005	0.0004	U	1	0.005
Xylene, o-																																						
SW8270C (mg/kg)	0.03	0.7	--	--	0.6	65	0.06	F	1	0.70	0.08	F	1	0.93																								
Bis(2-ethylhexyl)phthalate	0.04	0.7	--	--	200	270	0.04	U	1	0.70	0.04	U	1	0.93																								
Naphthalene																																						

Tables present all laboratory results for analytes detected above the method detection limit. Results from all laboratory analysis are presented in Appendix C. All samples were analyzed by APPL Inc., referenced laboratory package numbers 32110, 32116, 32119, 32130. All MS/MSD results are presented in the Data Verification Reports, Appendix C.

Abbreviations and Notes:
 Highlighted and bolded sample concentrations exceed RRS1 Standards (background levels).
 Boxed sample concentrations exceed one or both of RRS2 GWP or RRS2 SAI. Although CSSA intends to close the site under RRS1, RRS2 Standards have been retained in the table to provide a frame of reference for RRS1 exceedances.

-- No risk reduction standard or background level available
 a Background values from Second Revised Background Report, February 2002
 DL Dilution
 FD1 Field Duplicate
 GR Glen Rose
 GWP-Ind Soil MSC based on groundwater protection
 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

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

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Summary of Chemical Constituents Detected in Soil, March 2000
Solid Waste Management Unit Building 43

Sample ID Sample Date Sample Type Soil Type Beginning Depth Ending Depth Lab ID	Soil Comparison Criteria					BLDG43-SB05				BLDG43-SB05				BLDG43-SB06				BLDG43-SB06				BLDG43-SB06				BLDG43-SB06				
	Lab	MDL	Background ^a 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	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
	MDL	RL																												
SW6010B (mg/kg)																														
Barium	0.08	1.0	186	10.	200	59,000	7.02	J	1	1.0	6.87	J	1	1.0	215.26	M	100	100.0	191.32	M	100	100.0	13.06	J	1	1.0	6.14	J	1	1.0
Chromium	0.1	20.0	40.2	8.1	10	350,000	4.6	F	1	20.0	6.6	F	1	20.0	28.5	M	100	2,000.0	30.6	M	100	2,000.0	7.3	F	1	20.0	3.7	F	1	20.0
Copper	0.19	2.0	23.2	13.1	130	74,000	4.3	J	1	2.0	2.8	J	1	2.0	14,453.11	M	100	200.0	13,685.66	M	100	200.0	6.37	J	1	2.0	4.8	J	1	2.0
Nickel	0.12	2.0	35.5	6.8	200	12,000	3.08	J	1	2.0	4.4	J	1	2.0	30.94	M	100	200.0	31.71	M	100	200.0	5.69	J	1	2.0	8.25	J	1	2.0
Zinc	0.63	5.0	73.2	11.3	3,100	41,000	5.87	J	1	5.0	6.24	J	1	5.0	9,926.3	M	100	500.0	10,922.19	M	100	500.0	7.58	B	1	5.0	7.68	B	1	5.0
SW7060A (mg/kg)																														
Arsenic	0.04	0.5	19.6	3.8	5	200	0.04	U	1	0.5	0.78		1	0.5	5.34	J	5	2.5	7.74	J	5	2.5	0.42	F	1	0.5	0.04	J	1	0.5
SW7131A (mg/kg)																														
Cadmium	0.01	0.1	3.	0.1	0.5	410	0.01	J	1	0.1	0.01	J	1	0.1	22.0	M	250	25.0	22.03	M	250	25.0	0.01	J	1	0.1	0.01	J	1	0.1
SW7421 (mg/kg)																														
Lead	0.13	0.5	84.5	5.5	1.5	1,000	0.70	J	1	0.5	2.65	J	1	0.5	963.5	M	250	125.0	1,654.05	M	500	250.0	3.96	J	1	0.5	1.77	J	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	0.01	U	1	0.1	0.82	M	1	0.10	0.87	M	1	0.1	0.03	F	1	0.1	0.04	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	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002
Ethylbenzene, 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	0.0006	U	1	0.005	0.0006	U	1	0.005	0.0006	U	1	0.005
Chloroform	0.0003	0.002	--	--	10	0.51	0.0003	U	1	0.002	0.0009	F	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002
Dichlorodifluoromethane	0.0008	0.005	--	--	2,000	3,100	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005	0.0008	U	1	0.005
Ethylbenzene	0.0004	0.003	--	--	70	6,900	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003	0.0004	U	1	0.003
Isopropyltoluene, 4- (Cymene, p-)	0.0005	0.006	--	--	NA	NA	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006	0.0005	U	1	0.006
Methylene chloride	0.0007	0.005	--	--	0.5	16	0.0022	J	1	0.005	0.1872	J	1	0.005	0.0054	J	1	0.005	0.0124	J	1	0.005	0.0193	J	1	0.005	0.0234	J	1	0.005
Naphthalene	0.001	0.02	--	--	200	270	0.001	U	1	0.020	0.001	U	1	0.020	0.002	M	1	0.020	0.001	M	1	0.020	0.001	U	1	0.020	0.001	U	1	0.020
Propylbenzene, N-	0.0008	0.002	--	--	0.0008	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002	0.0008	U	1	0.002
Toluene	0.0003	0.005	--	--	100	2,400	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0011	F	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	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0011	M	1	0.004	0.0008	M	1	0.004	0.0008	U	1	0.004	0.0008	U	1	0.004
Trimethylbenzene, 1,2,4-	0.0004	0.007	--	--	NA	NA	0.0004	U	1	0.007	0.0004	U	1	0.007	0.0004	M	1	0.007	0.0004	M	1	0.007	0.0004	U	1	0.007	0.0004	U	1	0.007
Xylene, m,p-	0.0008	0.007	--	--	1,000		0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007	0.0008	U	1	0.007
Xylene, o-	0.0004	0.005	--	--	1,000		0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005	0.0004	U	1	0.005
SW8270C (mg/kg)																														
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65																								
Naphthalene	0.04	0.7	--	--	200	270																								

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