

**Table AOC42-2**  
**Summary of Chemical Constituents Detected in Subsurface Soil and Rock, March 2001**  
**Area of Concern 42**

							Sample ID				AOC42-SB01				AOC42-SB01				AOC42-SB02				AOC42-SB02						
							Sample Date							03/21/01				03/21/01				03/19/01				03/19/01			
							Sample Type							N1				N1				N1				FD1			
							Soil Type							Soil (Tf)				GR				Soil (Tf)				Soil (Tf)			
							Beginning Depth							6.5				14.5				7.				7.			
							Ending Depth							7.				15.				8.				8.			
Lab ID							S2706				S2707				S2514				S2515										
Soil Comparison Criteria																													
Lab							Results				Results				Results				Results										
MDL							Flags				Flags				Flags				Flags										
RL							Dilution				Dilution				Dilution				Dilution										
Background <sup>a</sup>							SQL				SQL				SQL				SQL										
Soil																													
GR																													
RRS2-GWP																													
(Ind.)																													
RRS2-SAI (Ind.)																													
SW6010B (mg/kg)							51.0	J	1	1.0	5.2	M	1	1.0	7.7	J	1	1.0	13.6	J	1	1.0							
Barium							11.0	M	1	20	6.0	M	1	20	5.3	M	1	20	5.2	M	1	20							
Chromium							4.0		1	2.0	2.0		1	2.0	2.3		1	2.0	2.3		1	2.0							
Copper							8.25	M	1	2.0	5.78	M	1	2.0	4.15	M	1	2.0	4.04	M	1	2.0							
Nickel							27.3		1	2.0	15.0		1	2.0	5.6	J	1	2.0	14.1	J	1	2.0							
Zinc																													
SW7060A (mg/kg)							1.7	M	1	0.5	2.71	M	1	0.5	1.46	M	1	0.5	1.07	M	1	0.5							
Arsenic							0.166	M	1	0.1	0.038	M	1	0.1	0.015	M	1	0.1	0.066	M	1	0.1							
SW7131A (mg/kg)																													
Cadmium							4.31	M	1	0.5	2.41	M	1	0.5	2.39	M	1	0.5	2.14	M	1	0.5							
SW7421 (mg/kg)							0.028	F	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1							
Lead																													
SW7471A (mg/kg)																													
Mercury																													

Tables present all laboratory results for analytes detected above the method detection limit.  
Results from all laboratory analysis are presented in Appendix A  
All samples were analyzed by O'Brien and Datachem Laboratories.  
Referenced laboratory package numbers: O'Brien and Gere: 8405, 8440, 8468, 8512; Datachem: 01C-0048-02  
All MS/MSD results are presented in the Data Verification Report, Appendix C.

**Abbreviations/Notes:**

Highlighted and bolded sample concentrations exceed RRS1 (background) standards  
Boxed samples indicate results greater than RRS2 standards. Although CSSA plans to pursue RRS1 closure, RRS2 criteria are included in the table to provide a frame of reference for RRS1 exceedances.

- a Background values from Revised Background Report, (Parsons, February 2002)
- No risk reduction standard or background level available
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- FD1 Field Duplicate
- GWP-Ind Soil MSC based on groundwater protection
- Tf Trinity & Frio
- 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:**

- 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.
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**Area of Concern 42**

	Sample ID						AOC42-SB02				AOC42-SB03				AOC42-SB03				AOC42-SB04			
	Sample Date						03/19/01				03/21/01				03/21/01				03/19/01			
	Sample Type						N1				N1				N1				N1			
	Soil Type						GR				Soil (Tf)				GR				Soil (Tf)			
	Beginning Depth						14.				8.5				11.				7.			
	Ending Depth						15.				9.				12.5				7.5			
Lab ID						S2516				S2708				S2709				S2512				
Soil Comparison Criteria																						
Lab	Lab	Background <sup>a</sup>	Background <sup>a</sup>	RRS2-GWP			Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
MDL	RL	Soil	GR	(Ind.)	RRS2-SAI (Ind.)																	
SW6010B (mg/kg)																						
Barium	0.04	1.0	186	10.0	200	59000	3.2	M	1	1.0	37.0	J	1	1.0	5.4	J	1	1.0	6.1	J	1	1.0
Chromium	0.06	20.	40.2	8.1	10	350000	3.9	M	1	20	9.4	F	1	20	3.7	F	1	20	3.0	M	1	20
Copper	0.08	2.0	23.2	13.1	130	74000	1.4	F	1	2.0	4.3		1	2.0	3.0		1	2.0	1.3	F	1	2.0
Nickel	0.118	2.0	35.5	6.8	200	12000	6.68	M	1	2.0	6.5	J	1	2.0	4.35	J	1	2.0	1.84	M	1	2.0
Zinc	0.31	2.0	73.2	11.3	3100	41000	11.8	J	1	2.0	15.5		1	2.0	26.1		1	2.0	5.5	J	1	2.0
SW7060A (mg/kg)																						
Arsenic	0.047	0.5	19.6	3.8	5	200	1.22	M	1	0.5	1.88	J	1	0.5	0.92	J	1	0.5	0.8	M	1	0.5
SW7131A (mg/kg)																						
Cadmium	0.0104	0.1	3	0.10	0.5	410	0.0104	M	1	0.1	0.126		1	0.1	0.326		1	0.1	0.0104	M	1	0.1
SW7421 (mg/kg)																						
Lead	0.0264	0.5	84.5	5.5	1.5	1000	1.63	M	1	0.5	3.56		1	0.5	1.33	J	1	0.5	1.04	M	1	0.5
SW7471A (mg/kg)																						
Mercury	0.0217	0.1	0.77	0.1	0.2	9.6	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1

Tables present all laboratory results for analytes detected above the method detection limit.  
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FD1 Field Duplicate  
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MDL Method Detection Limit  
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SQL Sample Quantitation Limit

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**Area of Concern 42**

	Sample ID						AOC42-SB04				AOC42-SB05				AOC42-SB05				AOC42-SB05			
	Sample Date						03/19/01				03/21/01				03/21/01				03/21/01			
	Sample Type						N1				N1				FD1				N1			
	Soil Type						GR				Soil (Tf)				GR				GR			
	Beginning Depth						14.				5.				15.				15.			
	Ending Depth						14.5				5.5				16.				16.			
Lab ID						S2513				S2714				S2716				S2715				
Soil Comparison Criteria																						
Lab	Lab	Background <sup>a</sup>	Background <sup>a</sup>	RRS2-GWP			Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
MDL	RL	Soil	GR	(Ind.)	RRS2-SAI (Ind.)																	
SW6010B (mg/kg)																						
Barium	0.04	1.0	186	10.0	200	59000	4.4	J	1	1.0	72.3	J	1	1.0	4.7	M	1	1.0	1.8	M	1	1.0
Chromium	0.06	20.	40.2	8.1	10	350000	5.7	F	1	20	15.3	F	1	20	5.6	M	1	20	2.2	M	1	20
Copper	0.08	2.0	23.2	13.1	130	74000	1.8	F	1	2.0	5.6		1	2.0	1.3	F	1	2.0	1.0	F	1	2.0
Nickel	0.118	2.0	35.5	6.8	200	12000	6.23		1	2.0	9.94	J	1	2.0	3.65	M	1	2.0	2.34	M	1	2.0
Zinc	0.31	2.0	73.2	11.3	3100	41000	6.5	J	1	2.0	30.8		1	2.0	6.0		1	2.0	5.4		1	2.0
SW7060A (mg/kg)																						
Arsenic	0.047	0.5	19.6	3.8	5	200	2.22	J	1	0.5	2.31	J	1	0.5	1.57	M	1	0.5	2.43	M	1	0.5
SW7131A (mg/kg)																						
Cadmium	0.0104	0.1	3	0.10	0.5	410	0.035	F	1	0.1	0.213		1	0.1	0.022	M	1	0.1	0.035	M	1	0.1
SW7421 (mg/kg)																						
Lead	0.0264	0.5	84.5	5.5	1.5	1000	2.32	J	1	0.5	5.89	J	5	2.5	2.1	M	1	0.5	2.09	M	1	0.5
SW7471A (mg/kg)																						
Mercury	0.0217	0.1	0.77	0.1	0.2	9.6	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1

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	Sample Date						03/19/01				03/19/01				03/19/01				03/19/01				
	Sample Type						N1				N1				N1				N1				
	Soil Type						Soil (Tf)				GR				Soil (Tf)				GR				
	Beginning Depth						5.				14.5				4.				14.5				
Ending Depth						5.5				15.				4.5				15.					
Lab ID						S2510				S2511				S2508				S2509					
Soil Comparison Criteria																							
Lab	Lab	Background <sup>a</sup>	Background <sup>a</sup>	RRS2-GWP			Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	
MDL	RL	Soil	GR	(Ind.)	RRS2-SAI (Ind.)																		
SW6010B (mg/kg)																							
Barium	0.04	1.0	186	10.0	200	59000	78.6	J	1	1.0	2.8	M	1	1.0	25.2	J	1	1.0	4.7	M	1	1.0	
Chromium	0.06	20.	40.2	8.1	10	350000	18.8	F	1	20	3.6	M	1	20	4.3	F	1	20	3.1	M	1	20	
Copper	0.08	2.0	23.2	13.1	130	74000	7.1		1	2.0	1.3	F	1	2.0	1.9	F	1	2.0	1.97	F	1	2.0	
Nickel	0.118	2.0	35.5	6.8	200	12000	12.69		1	2.0	4.93	M	1	2.0	2.3		1	2.0	3.21	M	1	2.0	
Zinc	0.31	2.0	73.2	11.3	3100	41000	34.3	J	1	2.0	4.1	J	1	2.0	9.3	J	1	2.0	8.2	J	1	2.0	
SW7060A (mg/kg)																							
Arsenic	0.047	0.5	19.6	3.8	5	200	3.31	J	1	0.5	1.29	M	1	0.5	0.66	J	1	0.5	0.81	M	1	0.5	
SW7131A (mg/kg)																							
Cadmium	0.0104	0.1	3	0.10	0.5	410	0.226		1	0.1	0.031	M	1	0.1	0.046	F	1	0.1	0.032	M	1	0.1	
SW7421 (mg/kg)																							
Lead	0.0264	0.5	84.5	5.5	1.5	1000	10.0	J	5	2.5	1.68	M	1	0.5	1.88	J	1	0.5	1.29	M	1	0.5	
SW7471A (mg/kg)																							
Mercury	0.0217	0.1	0.77	0.1	0.2	9.6	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	

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	Sample Date						03/21/01				03/21/01				03/21/01				03/21/01			
	Sample Type						N1				N1				N1				N1			
	Soil Type						Soil (Tf)				GR				Soil (Tf)				GR			
	Beginning Depth						6.5				16.5				9.				13.5			
	Ending Depth						7.				17.5				9.5				14.5			
Lab ID						S2710				S2711				S2712				S2713				
Soil Comparison Criteria																						
Lab	Lab	Background <sup>a</sup>	Background <sup>a</sup>	RRS2-GWP			Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
MDL	RL	Soil	GR	(Ind.)	RRS2-SAI (Ind.)																	
SW6010B (mg/kg)																						
Barium	0.04	1.0	186	10.0	200	59000	37.4	J	1	1.0	14.00	J	1	1.0	65.5	J	1	1.0	5.5	J	1	1.0
Chromium	0.06	20.	40.2	8.1	10	350000	10.5	M	1	20	5.3	F	1	20	15.6	F	1	20	4.0	F	1	20
Copper	0.08	2.0	23.2	13.1	130	74000	3.9		1	2.0	3.1		1	2.0	6.7		1	2.0	3.0		1	2.0
Nickel	0.118	2.0	35.5	6.8	200	12000	7.69	M	1	2.0	4.25	J	1	2.0	12.46	J	1	2.0	12.01	J	1	2.0
Zinc	0.31	2.0	73.2	11.3	3100	41000	23.1		1	2.0	14.6		1	2.0	31.3		1	2.0	12.0		1	2.0
SW7060A (mg/kg)																						
Arsenic	0.047	0.5	19.6	3.8	5	200	2.88	M	1	0.5	0.93	J	1	0.5	2.53	J	1	0.5	3.33	J	1	0.5
SW7131A (mg/kg)																						
Cadmium	0.0104	0.1	3	0.10	0.5	410	0.178	M	1	0.1	0.09	F	1	0.1	0.192		1	0.1	0.036	F	1	0.1
SW7421 (mg/kg)																						
Lead	0.0264	0.5	84.5	5.5	1.5	1000	6.54	M	5	2.5	2.33	J	1	0.5	8.19	J	5	2.5	1.65	J	1	0.5
SW7471A (mg/kg)																						
Mercury	0.0217	0.1	0.77	0.1	0.2	9.6	0.167		1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1	0.0217	U	1	0.1

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