

Soil Types Found at CSSA

- BrE Brackett Soils, 12-30% Slopes
- BrE Brackett-Tarrant Association, Hilly
- Cb Crawford & Bexar, Stony Soils
- Kr Krum Complex
- Lvb Lewisville, Silty Clay 1-3% Slopes
- Tvb Tarrant Association, Gently Undulating
- Tac Tarrant Association, Rolling
- Tr Trinity & Frio Soils, Frequently Flooded

- Water Well Locations
- Creeks (Dashed where intermittent)
- Topographic Contour Line and Elevation (ft. MSL)

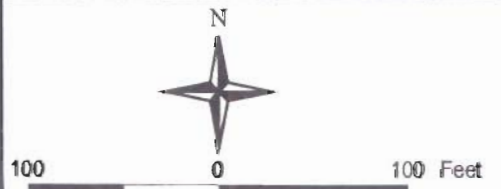
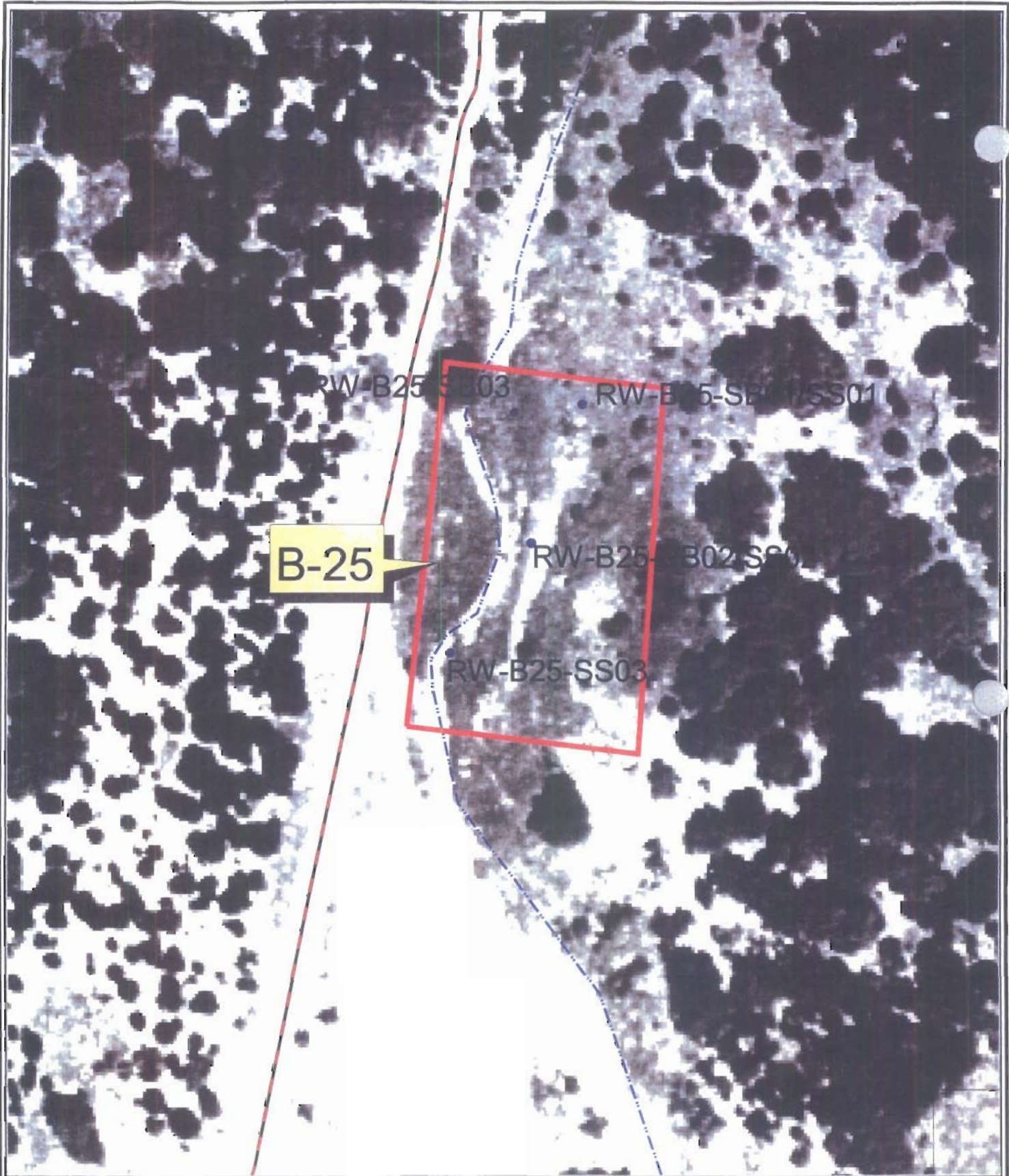
Note: Surface Topographic Information Digitized by Parsons from USGS maps. Aerial Photo Date: 1998
 Soil Information Digitized by Parsons from USDA Soil Conservation Service, Bexar Cnty Soil Survey, 1991.

Figure B25-2

Soils and Topographic Map

Camp Stanley Storage Activity

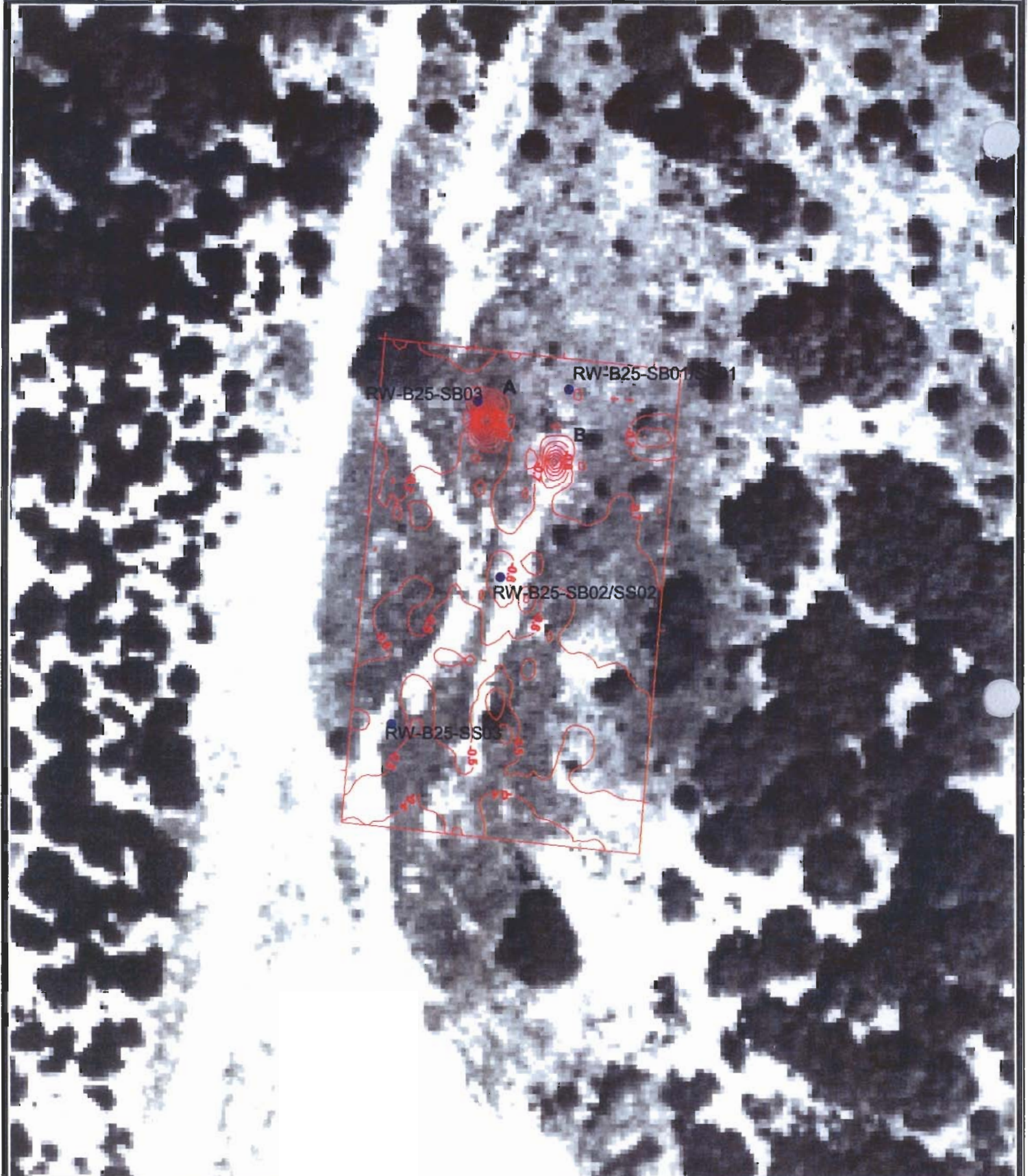
PARSONS ENGINEERING SCIENCE, INC.



- ⊙ Soil Gas Survey Location
- Soil Boring / Surface Sample Locations
- ⊕ Water Well Location
- Creeks (Dashed where intermittent)
- Roads
- Survey Grid Boundary

Due to different margins of error associated with the various methods utilized for data point collection, all sample locations are approximate. For more information see the 2001 amendment to the Field Sampling Plan, Vol. 1-4 of the Environmental Encyclopedia. Aerial Photo Date: 1998

Figure B25-4
 Sample Location Map
 Camp Stanley Storage Activity
PARSONS ENGINEERING SCIENCE, INC.



Contour Interval = 0.1 ppt
 Aerial Photo Date: 1998



75 0 75 Feet

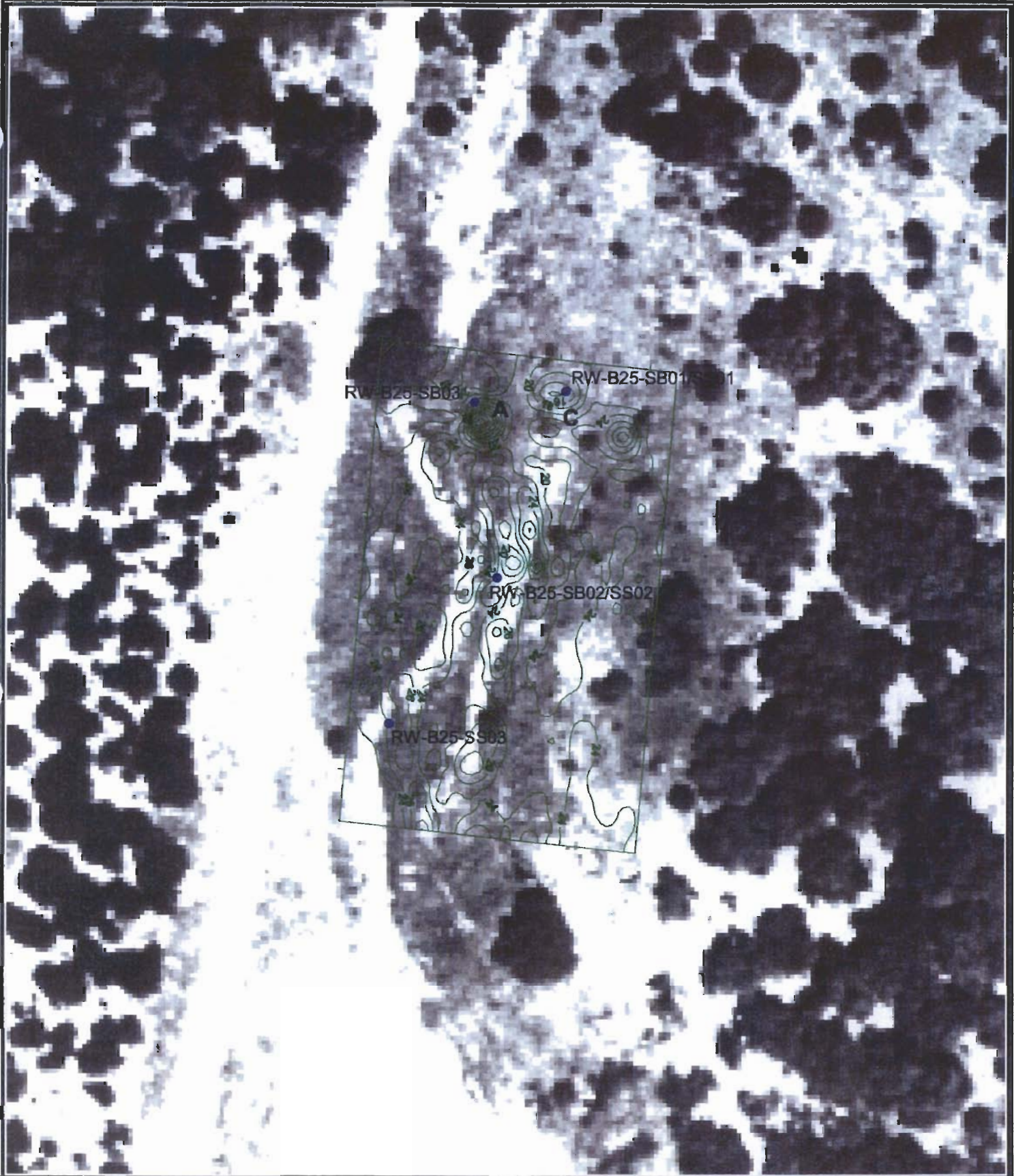
- Soil Boring/Surface Sample Location
- A** EM Anomaly Location

Figure B25-5

Electromagnetic Data
 In-Phase

Camp Stanley Storage Activity

PARSONS ENGINEERING SCIENCE, INC.



Contour Interval = 2.0 mS/m
 Aerial Photo Date: 1998



75 0 75 Feet

- Soil Boring/Surface Sample Location
- A** EM Anomaly Location

Figure B25-6

Electromagnetic Data
 Quadrature Phase

Camp Stanley Storage Activity

PARSONS ENGINEERING SCIENCE, INC.

Table B25-1
Summary of Chemical Constituents Detected in Surface Soil, March 2000
Solid Waste Management Unit B-25

	Sample ID					RW-B25-SS01				RW-B25-SS02				RW-B25-SS03				RW-B25-SS03			
	Sample Date					03/22/00				03/22/00				03/23/00				03/23/00			
	Sample Type					N1				N1				N1				FD1			
Soil Type					Soils (Kr)				Soils (Kr)				Soils (Kr)				Soils (Kr)				
Beginning Depth					0				0				0				0				
Ending Depth					0.5				0.5				0.5				0.5				
Lab ID					Q1109 \ AP90226				Q1195 \ AP9022				Q1321 \ AP90305				Q1322 \ AP90306				
	Soil Comparison Criteria					Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL
	Lab MDL	Lab RL	Background ^a Soils	RRS2-GWP (Ind.)	RRS2-SAI (Ind.)																
SW6010B (mg/kg)																					
Barium	0.044	1.0	188	200	59,000	94.7		5	5.0	82.9		1	1.0	80.5	J	1	1.0	101.6	J	1	1.0
Chromium	0.078	20.0	40.2	10	350,000	21.5	F	5	100.0	21.1		1	20.0	20.4		1	20.0	19.7	F	1	20.0
Copper	0.072	2.0	23.2	130	74,000	8.2	F	5	10.0	10.7		1	2.0	10.5	J	1	2.0	9.7	J	1	2.0
Nickel	0.118	2.0	35.5	200	12,000	13.3		5	10.0	11.9		1	2.0	12.3	J	1	2.0	12.4	J	1	2.0
Zinc	0.42	2.0	73.2	3,100	41,000	57.4		5	10.0	218.1		1	2.0	46.1	M	1	2.0	38.4	M	1	2.0
SW7060A (mg/kg)																					
Arsenic	0.032	0.5	19.8	5	200	20.29		10	5.0	7.01		2	1.0	4.37	J	1	0.5	5.36	J	2	1.0
SW7131A (mg/kg)																					
Cadmium	0.022	0.1	3.00	0.5	410	0.26		1	0.1	0.33		1	0.1	0.31	J	1	0.1	0.29	J	1	0.1
SW7421 (mg/kg)																					
Lead	0.069	0.5	84.5	1.5	1,000	12.3		5	2.5	16.93		10	5.0	16.14		10	5.0	17.59		10	5.0
SW8260 (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
Methylene chloride	0.0003	0.002	--	0.5	16	0.0007	U	1	0.002	0.0007	U	1	0.002	0.0007	U	1	0.002	0.0007	U	1	0.002
Naphthalene	0.001	0.02	--	200	270	0.001	U	1	0.02	0.005	F	1	0.02	0.004	M	1	0.02	0.002	M	1	0.02
Toluene	0.001	0.02	--	100	2,400	0.0036	F	1	0.02	0.0003	U	1	0.02	0.0003	U	1	0.02	0.0003	U	1	0.02
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	NA	NA	0.0008	U	1	0.004	0.0024	F	1	0.004	0.0019	M	1	0.004	0.0008	M	1	0.004
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	7	8,100	0.0006	U	1	0.004	0.0018	F	1	0.004	0.0008	M	1	0.004	0.0006	M	1	0.004
SW8270 (mg/kg)																					
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	0.6	85	0.06	F	1	0.7	0.08	F	1	0.7	0.03	M	1	0.7	0.03	M	1	0.7
Diethylphthalate	0.03	0.7	--	8,200	820,000	0.04	U	1	0.7	0.08	F	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
Naphthalene	0.04	0.7	--	200	270	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
Trichlorobenzene, 1,2,4-	0.04	0.7	--	7	8,100	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7

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 APPL Laboratories and O'Brien and Gere Laboratories.

Referenced laboratory package numbers: APPL 32289, 32276

O'Brien and Gere: 5054, 5075, 5090, 5107, 5122

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

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.

M - A matrix effect was present.

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 second Revised Background Report, February 2002

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 B25-2
Summary of Chemical Constituents Detected in Subsurface Soil, March 2000
Solid Waste Management Unit B-25

	Sample ID						RW-B25-SB01				RW-B25-SB01				RW-B25-SB02				RW-B25-SB02			
	Sample Date						03/22/00				03/22/00				03/22/00				03/22/00			
	Sample Type						N1				N1				N1				N1			
Soil Type						Soils (Kr)				GR				GR				GR				
Beginning Depth						5				14				3				7.5				
Ending Depth						6.5				14.5				3.5				8				
Lab ID						Q1199 \ AP90227				Q1200 \ AP90228				Q1196 \ AP90224				Q1197 \ AP90225				
Soil Comparison Criteria																						
Lab	Lab	Background ^a	Background ^a	RRS2-GWP	RRS2-SAI	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	
MDL	RL	Soils	GR	(Ind.)	(Ind.)																	
SW6010B (mg/kg)																						
Barium	0.044	1.0	186	10	200	59,000	174	3	5	5.0	6.9	5	5.0	4.6	F	5	5.0	8.1	5	5.0	5.0	
Chromium	0.078	20.0	40.2	8.1	10	350,000	20.8	F	5	100.0	8.6	F	5	100.0	5.2	F	5	100.0	9.7	F	5	100.0
Copper	0.072	2.0	23.2	13.1	130	74,000	49.5	5	10.0	2.4	F	5	10.0	1.8	F	5	10.0	3.0	F	5	10.0	
Nickel	0.118	2.0	35.5	6.8	200	12,000	16.0	5	10.0	4.3	F	5	10.0	3.3	F	5	10.0	4.1	F	5	10.0	
Zinc	0.42	2.0	73.2	11.3	3,100	41,000	45.5	5	10.0	12.9	5	10.0	8.8	F	5	10.0	19.1	5	10.0	19.0		
SW7060A (mg/kg)																						
Arsenic	0.032	0.5	19.6	3.8	5	200	5.77	2	1.0	1.21	1	0.5	1.3	1	0.5	1.28	1	0.5	1.28	1	0.5	
SW7131A (mg/kg)																						
Cadmium	0.022	0.1	3.00	0.10	0.5	410	0.32	1	0.1	0.03	F	1	0.1	0.04	F	1	0.1	0.02	F	1	0.1	
SW7421 (mg/kg)																						
Lead	0.069	0.5	84.5	5.5	1.5	1,000	11.4	5	2.5	2.71	1	0.5	1.69	1	0.5	2.91	1	0.5	2.91	1	0.5	
SW8260B (mg/kg)																						
Benzene	0.0003	0.002	--	--	0.5	1.5	0.003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002
Methylene chloride	0.0003	0.002	--	--	0.5	16	0.007	U	1	0.002	0.0012	F	1	0.002	0.0007	U	1	0.002	0.0007	U	1	0.002
Naphthalene	0.001	0.02	--	--	200	270	0.001	U	1	0.02	0.001	U	1	0.02	0.001	U	1	0.02	0.001	U	1	0.02
Toluene	0.001	0.02	--	--	100	2,400	0.003	U	1	0.02	0.003	U	1	0.02	0.003	U	1	0.02	0.003	U	1	0.02
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	0.0008	U	1	0.004
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	8,100	0.006	U	1	0.004	0.0006	U	1	0.004	0.0006	U	1	0.004	0.0006	U	1	0.004
SW8279C (mg/kg)																						
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65	0.09	F	1	0.7	3.40	F	5	3.5	3.20	1	0.7	5.2	5	3.5		
Diethylphthalate	0.03	0.7	--	--	8,200	820,000	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
Napthalene	0.04	0.7	--	--	200	270	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7
Trichlorobenzene, 1,2,4-	0.04	0.7	--	--	7	8,100	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7	0.04	U	1	0.7

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 APPL Inc. or O'Brien and Gere. Referenced laboratory package numbers: APPL 32289, 32278. O'Brien and Gere: 5054, 5075, 5090, 5107, 5122. All MS/MSD results are presented in the Data Verification Report, Appendix D.

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.
 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. Bolded samples indicate results greater than RRS2 Standards.
 -- 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
 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 B25-2
Summary of Chemical Constituents Detected in Subsurface Soil, March 2000
Solid Waste Management Unit B-25

	Sample ID		RW-B25-SB03		RW-B25-SB03		RW-B25-SB03	
	Sample Date		03/23/00		03/23/00		03/23/00	
	Sample Type		N1		N1		N1	
Soil Type		Soils (Kr)		GR		GR		
Beginning Depth		0.5		4		9		
Ending Depth		1		4.5		9.5		
Lab ID		Q1323 \ AP90310		Q1324 \ AP90311		Q1325 \ AP90312		
Soil Comparison Criteria								
	Lab MDL	Lab RL	Background ^a Soils	Background ^a GR	RRS2-GWP (Ind.)	RRS2-SAI (Ind.)	Results	Flags Dilution SQL
SW6010B (mg/kg)							Results	Flags Dilution SQL
Barium	0.044	1.0	186	10	200	59,000	80.0 J	5 5.0
Chromium	0.078	20.0	40.2	8.1	10	350,000	17.0 F	5 100.0
Copper	0.072	2.0	23.2	13.1	130	74,000	9.3 F	5 10.0
Nickel	0.118	2.0	35.5	6.8	200	12,000	11.3 J	5 10.0
Zinc	0.42	2.0	73.2	11.3	3,100	41,000	29.3 J	5 10.0
SW7060A (mg/kg)							Results	Flags Dilution SQL
Arsenic	0.032	0.5	19.6	3.8	5	200	4.26 J	1 0.5
SW7131A (mg/kg)							Results	Flags Dilution SQL
Cadmium	0.022	0.1	3.00	0.10	0.5	410	0.26 J	1 0.1
SW7421 (mg/kg)							Results	Flags Dilution SQL
Lead	0.069	0.5	84.5	5.5	1.5	1,000	12.75	5 2.5
SW8260B (mg/kg)							Results	Flags Dilution SQL
Benzene	0.0003	0.002	--	--	0.5	1.5	0.0005 F	1 0.002
Methylene chloride	0.0003	0.002	--	--	0.5	16	0.0007 U	1 0.002
Naphthalene	0.001	0.02	--	--	200	270	0.003 F	1 0.02
Toluene	0.001	0.02	--	--	100	2,400	0.0003 U	1 0.02
Trichlorobenzene, 1,2,3-	0.0008	0.004	--	--	NA	NA	0.0013	1 0.004
Trichlorobenzene, 1,2,4-	0.0006	0.004	--	--	7	6,100	0.0013	1 0.004
SW8270C (mg/kg)							Results	Flags Dilution SQL
Bis(2-ethylhexyl)phthalate	0.03	0.7	--	--	0.6	65	0.12 F	1 0.7
Diethylphthalate	0.03	0.7	--	--	8,200	820,000	0.04 U	1 0.7
Naphthalene	0.04	0.7	--	--	200	270	0.04 U	1 0.7
Trichlorobenzene, 1,2,4-	0.04	0.7	--	--	7	6,100	0.04 U	1 0.7

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