August 2000

22603-SAL-0000-06000

CHARACTERIZATION REPORT
SALT CREEK/ZANE COMPRESSOR STATION
MUSKINGUM COUNTY, OHIO

Prepared for

COLUMBIA GAS TRANSMISSION CORPORATION
Environmental Affairs-Remediation
P.O. Box 1273
1700 MacCorkle Avenue, SE
Charleston, West Virginia

Prepared by

Baker Environmental, Inc.
Coraopolis, Pennsylvania

2.0 ENVIRONMENTAL SETTING

2.1 Physical Setting

The Salt Creek/Zane CS is in an undeveloped area of low to moderate topographic relief. The station does not appear to be in a flood-prone area. The CS is at an elevation of approximately 900 feet above mean sea level (msl) in the watershed of Boggs Creek. Surrounding ridges and valleys range in elevation from 700 to 940 feet msl (USGS, 1987).

The ground surface at the site gently slopes downward, west of the compressor station. Land use in the vicinity of the site (within 1,000 feet) includes woodlands and pasture land to the north, agricultural land to the south, Three Towers Road and agricultural land to the east, and agricultural and pasture land to the west.

2.2 Climate

The geographic area of the portion of Ohio in which the site is located receives a mean annual precipitation of approximately 37 inches. Prevailing winds are generally from the south. Temperatures vary widely, with average lows during the winter months reaching 21 degrees Fahrenheit to highs during the summer months reaching 82 degrees Fahrenheit. The greatest levels of precipitation occur in the spring while the lowest levels occur in late summer (Soil Survey of Muskingum County, Ohio, 1996).

2.3 Surface Water Hydrology

Surface water runoff from the CS flows southwest (approximately 800 feet) into an unnamed tributary of Boggs Creek. However, there does not appear to be a predominant drainage pathway on or off site. The unnamed tributary flows approximately four miles south toward the town of Salt Creek. The CS is located in the Boggs Creek watershed, and does not appear to be in a flood-prone area (USGS, 1987).

2.4 Geology and Soils

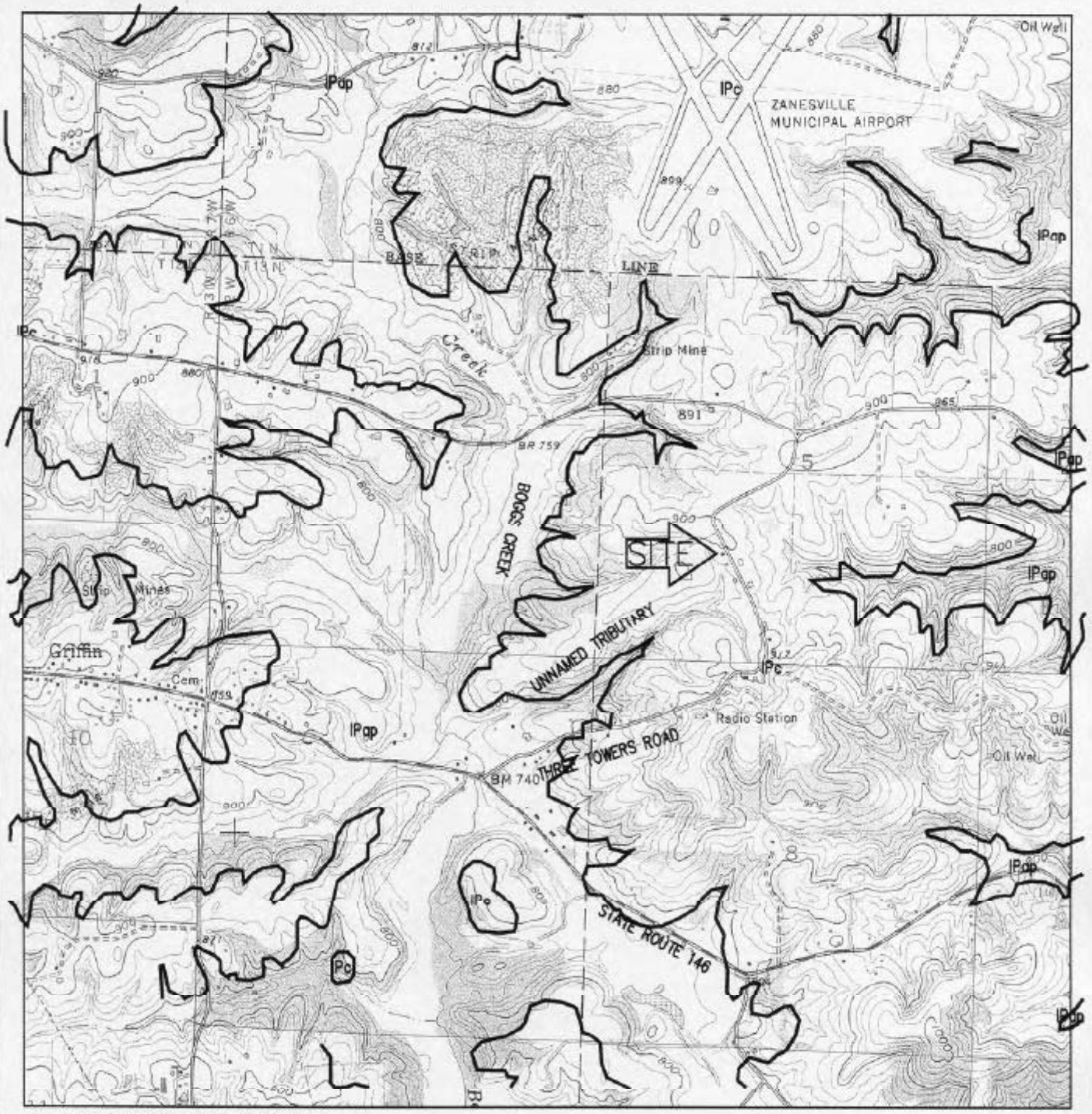
The Salt Creek/Zane CS is located on the unglaciated, dissected Allegheny Plateau Physiographic Province (Figure 2-1). The bedrock of this region is of the Pennsylvanian System/Conemaugh Group. This bedrock is sedimentary in origin, consisting mainly of shale, siltstone, mudstone, limestone, and coal (Bownocker 1981).

Soils at the Salt Creek/Zane CS are identified as Westmoreland-Guernsey silt loam, 15 to 25 percent slopes, eroded (soil description WuD2). This series consists of deep, moderately steep soils on dissected hillsides and benches. Soils are typically well drained near the ground surface, but become more clayey and less permeable with depth as silty clays are encountered (Soil Survey of Muskingum County, Ohio: 1996).

2.5 Hydrogeology and Groundwater Quality

In valley bottoms, useable quantities of groundwater are generally obtained from both shallow dug wells in unconsolidated deposits and/or wells installed into bedrock formations. In other topographic areas, wells completed in bedrock or springs are a source of potable water supplies. There is only one private residence within 1,000 feet of the site that also is located on Three Towers Road in the side-gradient direction of the unnamed tributary (DeLorme 1995). The source of the private resident's potable water supply is unknown.

Surface water from the county is drained by the Muskingum River and its main tributaries, the Licking River, and several creeks, including Salt Creek. The supply of groundwater is limited in most of the county. The principal source of groundwater is recharge from local precipitation. Flood plains along the Muskingum River serve as a source of drinking water through extraction wells. In outlying areas, use of wells located in the fill of the valley for potable supply is limited due to site-related constituents from area mine waste. In upland areas, groundwater wells generally withdraw from the Pennsylvanian-age sandstones.



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAP, ZANESVILLE EAST QUADRANGLE, OHIO.
UNDERLYING THE CS IS PENNSYLVANIAN SYSTEM/CONEMAUGH GROUP BEDROCK (IPc) (CONSISTING OF OF SHALE, SILTSTONE, MUDSTONE, LIMESTINE, AND MASSIVE; 350 TO 490 FEET THICKNESS)

2000 0 1000 2000 4000

1 inch = 2000 ft.

OHIO

QUADRANGLE LOCATION

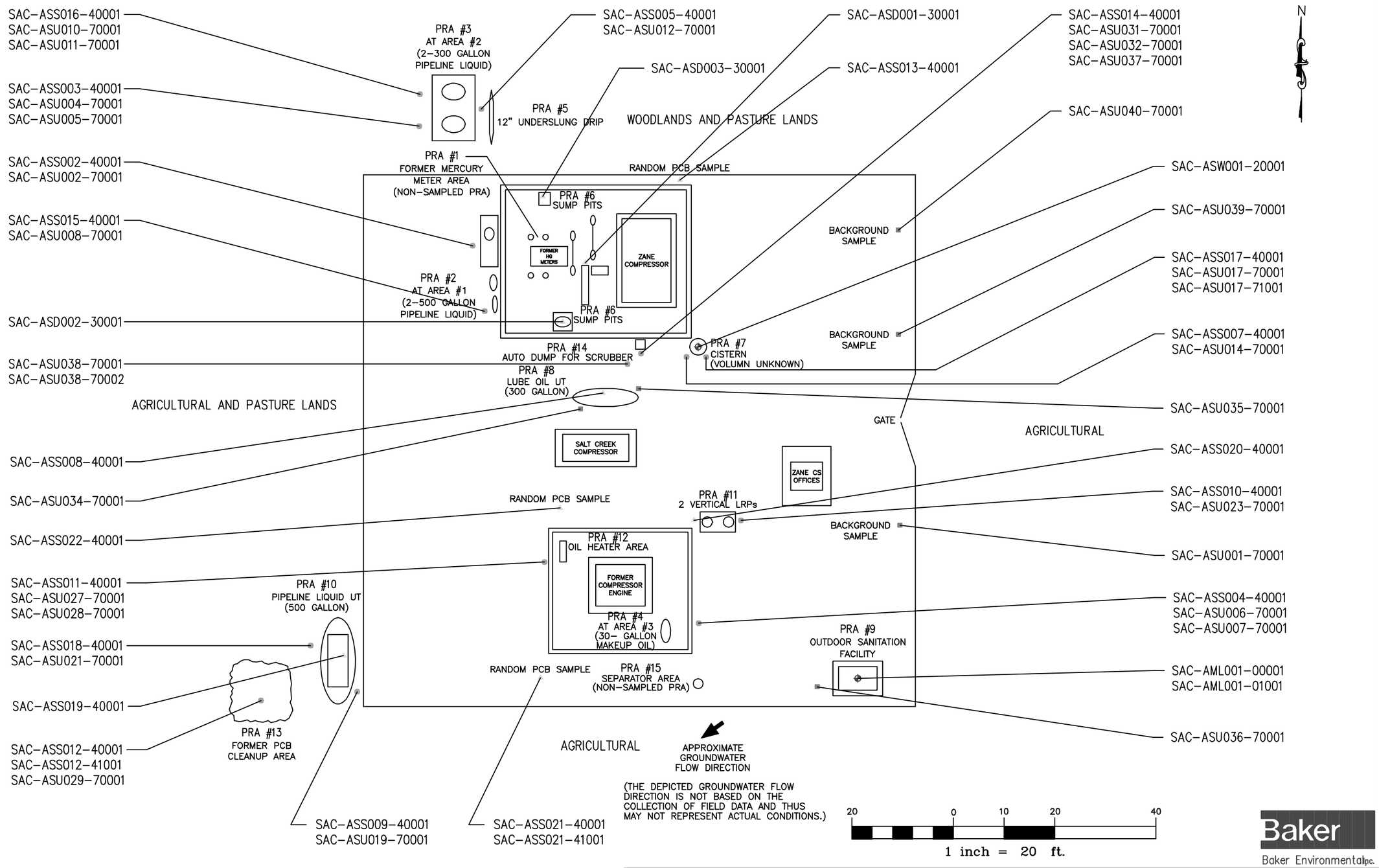
Baker

Baker Environmental Inc.

SCALE:	1" = 2000'	DATE:	11/24/99
S.O. NO.:	22603-SAL-0000-06000	FILE:	22603F98
REV:	0,	CHK:	

FIGURE 2-1
SITE GEOLOGY
SALT CREEK/ZANE COMPRESSOR STATION
COLUMBIA GAS TRANSMISSION CORPORATION
MUSKINGUM COUNTY, OHIO

22603F19



Baker
Baker Environmental Inc.

LEGEND

- SURFACE AND AT DEPTH SOIL SAMPLE LOCATION
- SURFACE SOIL/SEDIMENT SAMPLE LOCATION
- AT DEPTH SOIL SAMPLE LOCATION
- GROUNDWATER/LIQUID SAMPLE LOCATION

SCALE:	1" = 20'	DATE:	06/14/99
S.O. NO.:	22603-SAL-0000-06000	FILE:	22603F19
REV:	1, 06/14/99	CHK:	

FIGURE 3-1
SAMPLE LOCATION MAP
SALT CREEK/ZANE COMPRESSOR STATION

Shallow, perched groundwater was encountered approximately 3.5 feet bgs at several locations on site. A confining silty clay layer was present approximately 4 feet bgs. Thus, the maximum thickness of the water-bearing silt observed during characterization field activities was approximately 0.5 feet.

4.3 Analytical Results of Samples

A summary of constituents analyzed for individual PRAs is provided in Table 4-2. For each medium (soil, groundwater), Table 4-3 lists only those constituents for which a valid positive detection was reported by the laboratory for at least one sample at the site. Analytical results for the sampling completed are summarized in Table 4-3.

Figure 4-2 presents analytical results that exceed the CALs and/or background concentrations on the site base map. The results are discussed by matrix and PRA to facilitate review in the following subsections.

The Comprehensive Analytical Results tables, as prepared by ESi, and sample chain-of-custody forms are included in Appendix D. Columbia maintains a hard copy of all analytical data should additional review be needed.

4.3.1 Background Sampling Results

One background soil sample was collected from 1 to 3 feet bgs at each of three locations believed to not be affected by operations of the compressor station (Figure 4-2). These three samples were located topographically upgradient (east) of the various compressor station equipment on the grass lawn adjacent to the entrance gate. All three of these samples were analyzed for CWP Table 1 constituents.

Table 4-3
Summary of Analytical Results

		PRA	**0**					
		PRA Description	**BACKGROUND**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASU001-70001**		**SAC-ASU039-70001**		**SAC-ASU040-70001**	
		Depth - ft bgs	**1 - 3**		**1 - 3**		**1 - 3**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
BNA	**ACENAPHTHENE**	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**0**					
		PRA Description	**BACKGROUND**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASU001-70001**		**SAC-ASU039-70001**		**SAC-ASU040-70001**	
		Depth - ft bgs	**1 - 3**		**1 - 3**		**1 - 3**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	107		101		80.2	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	14.8		16.0		18.6	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	19.0		18.6		22.1	
	MERCURY, TOTAL	20	ND		ND		ND	
	ARSENIC, TOTAL	.43	12.8	X	9.8	X	14.0	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

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J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description	**RANDOM PCB SAMPLES**					
		Sample Type	**Field Duplicate (Rep)**		**Normal Sample**			
		Sample Id	**SAC-ASS021-41001**		**SAC-ASS013-40001**		**SAC-ASS021-40001**	
		Depth - ft bgs	**0 - .5**		**0 - .5**		**0 - .5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000						
	ETHYL BENZENE	7800						
	XYLENES (TOTAL)	1000000						
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
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Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description	**RANDOM PCB SAMPLES**					
		Sample Type	**Field Duplicate (Rep)**		**Normal Sample**			
		Sample Id	**SAC-ASS021-41001**		**SAC-ASS013-40001**		**SAC-ASS021-40001**	
		Depth - ft bgs	**0 - .5**		**0 - .5**		**0 - .5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON							

Notes:

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J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA			2			
		PRA Description			**PRA #2 AT AREA #1**			
		Sample Type			**Normal Sample**			
		Sample Id	**SAC-ASS022-40001**		**SAC-ASS002-40001**		**SAC-ASS015-40001**	
		Depth - ft bgs	**0 - .5**		**0 - 1**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000			ND		ND	
	ETHYL BENZENE	7800			ND		ND	
	XYLENES (TOTAL)	1000000			ND		ND	
	TETRACHLOROETHYLENE(PCE)	12			ND		ND	
BNA	**ACENAPHTHENE**	4700			ND		ND	
	FLUORENE	3100			ND		ND	
	PHENANTHRENE	23000			ND		ND	
	ANTHRACENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
	BENZO(A)ANTHRACENE	.87			ND		ND	
	BENZO(B)FLUORANTHENE	.87			ND		ND	
	CHRYSENE	87			ND		ND	
	BENZO(K)FLUORANTHENE	8.7			ND		ND	
	BENZO(A)PYRENE	.087			ND		ND	
	BENZO(GHI)PERYLENE	2300			ND		ND	

Notes:

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ND indicates Non-Detect
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Table 4-3
Summary of Analytical Results

		PRA			2			
		PRA Description			**PRA #2 AT AREA #1**			
		Sample Type			**Normal Sample**			
		Sample Id	**SAC-ASS022-40001**		**SAC-ASS002-40001**		**SAC-ASS015-40001**	
		Depth - ft bgs	**0 - .5**		**0 - 1**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87			ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500			100		125	
	BERYLLIUM, TOTAL	160			ND		ND	
	CADMIUM, TOTAL	39			ND		ND	
	CHROMIUM, TOTAL	230			18.3		17.3	
	LEAD, TOTAL	400			ND		ND	
	NICKEL, TOTAL	1600			18.9		18.7	
	MERCURY, TOTAL	20			ND		ND	
	ARSENIC, TOTAL	.43			10.8	X	13.3	X
INORGANIC	**CYANIDE, TOTAL**	1600			ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

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ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA					3	
		PRA Description					**PRA #3 AT AREA #2**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU002-70001**		**SAC-ASU008-70001**		**SAC-ASS003-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**1.5 - 2.5**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND			
BNA	**ACENAPHTHENE**	4700	ND		ND			
	FLUORENE	3100	ND		ND			
	PHENANTHRENE	23000	ND		ND			
	ANTHRACENE	23000	ND		ND			
	FLUORANTHENE	3100	ND		ND			
	PYRENE	2300	ND		ND			
	BENZO(A)ANTHRACENE	.87	ND		ND			
	BENZO(B)FLUORANTHENE	.87	ND		ND			
	CHRYSENE	87	ND		ND			
	BENZO(K)FLUORANTHENE	8.7	ND		ND			
	BENZO(A)PYRENE	.087	ND		ND			
	BENZO(GHI)PERYLENE	2300	ND		ND			

Notes:

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Table 4-3
Summary of Analytical Results

		PRA					3	
		PRA Description					**PRA #3 AT AREA #2**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU002-70001**		**SAC-ASU008-70001**		**SAC-ASS003-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**1.5 - 2.5**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND			
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	50.4		54.5			
	BERYLLIUM, TOTAL	160	ND		ND			
	CADMIUM, TOTAL	39	ND		ND			
	CHROMIUM, TOTAL	230	11.2		15.3			
	LEAD, TOTAL	400	ND		ND			
	NICKEL, TOTAL	1600	15.3		16.4			
	MERCURY, TOTAL	20	ND		ND			
	ARSENIC, TOTAL	.43	13.8	X	12.0	X		
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND			
	PETROLEUM HYDROCARBON						ND	

Notes:

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J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS016-40001**		**SAC-ASU004-70001**		**SAC-ASU005-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

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J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS016-40001**		**SAC-ASU004-70001**		**SAC-ASU005-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA					4	
		PRA Description					**PRA #4 AT AREA #3**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU010-70001**		**SAC-ASU011-70001**		**SAC-ASS004-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**4 - 5**		**0 - 1**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA					4	
		PRA Description					**PRA #4 AT AREA #3**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU010-70001**		**SAC-ASU011-70001**		**SAC-ASS004-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**4 - 5**		**0 - 1**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1	ND		ND			
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA					5	
		PRA Description					**PRA #5 12" UNDERSLUNG LRP**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU006-70001**		**SAC-ASU007-70001**		**SAC-ASS005-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**4 - 5**		**0 - 1**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA					5	
		PRA Description					**PRA #5 12" UNDERSLUNG LRP**	
		Sample Type					**Normal Sample**	
		Sample Id	**SAC-ASU006-70001**		**SAC-ASU007-70001**		**SAC-ASS005-40001**	
		Depth - ft bgs	**1.5 - 2.5**		**4 - 5**		**0 - 1**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1						
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA			6			
		PRA Description			**PRA #6 SUMP PITS**			
		Sample Type			**Normal Sample**			
		Sample Id	**SAC-ASU012-70001**		**SAC-ASD001-30001**		**SAC-ASD002-30001**	
		Depth - ft bgs	**1.5 - 2.5**		**0 - .1**		**0 - .3**	
		Collected Date	**02/06/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12			ND		ND	
BNA	**ACENAPHTHENE**	4700			ND		ND	
	FLUORENE	3100			ND		ND	
	PHENANTHRENE	23000			ND		ND	
	ANTHRACENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
	BENZO(A)ANTHRACENE	.87			ND		ND	
	BENZO(B)FLUORANTHENE	.87			ND		ND	
	CHRYSENE	87			ND		ND	
	BENZO(K)FLUORANTHENE	8.7			ND		ND	
	BENZO(A)PYRENE	.087			ND		ND	
	BENZO(GHI)PERYLENE	2300			ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA			6			
		PRA Description			**PRA #6 SUMP PITS**			
		Sample Type			**Normal Sample**			
		Sample Id	**SAC-ASU012-70001**		**SAC-ASD001-30001**		**SAC-ASD002-30001**	
		Depth - ft bgs	**1.5 - 2.5**		**0 - .1**		**0 - .3**	
		Collected Date	**02/06/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87			ND		ND	
P/PCB	**AROCLOR-1254**	1			0.12		ND	
METAL	**BARIUM, TOTAL**	5500			208		94.1	
	BERYLLIUM, TOTAL	160			ND		ND	
	CADMIUM, TOTAL	39			20.1		2.3	
	CHROMIUM, TOTAL	230			48.7		6.3	
	LEAD, TOTAL	400			356		44.7	
	NICKEL, TOTAL	1600			33.8		ND	
	MERCURY, TOTAL	20			143	X	0.68	
	ARSENIC, TOTAL	.43			22.6	X	7.1	X
INORGANIC	**CYANIDE, TOTAL**	1600			6.2		ND	
	PETROLEUM HYDROCARBON		ND					

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA			7			
		PRA Description			**PRA #7 CISTERN**			
		Sample Type			**Field Duplicate (Rep)**		**Normal Sample**	
		Sample Id	**SAC-ASD003-30001**		**SAC-ASU017-71001**		**SAC-ASS007-40001**	
		Depth - ft bgs	**0 - .2**		**1.5 - 2.5**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
BNA	**ACENAPHTHENE**	4700	0.50		ND		ND	
	FLUORENE	3100	0.50		ND		ND	
	PHENANTHRENE	23000	4.3		ND		ND	
	ANTHRACENE	23000	1.2		ND		ND	
	FLUORANTHENE	3100	3.6		ND		ND	
	PYRENE	2300	2.8		ND		ND	
	BENZO(A)ANTHRACENE	.87	2.2	X	ND		ND	
	BENZO(B)FLUORANTHENE	.87	1.5	X	ND		ND	
	CHRYSENE	87	1.8		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	1.0		ND		ND	
	BENZO(A)PYRENE	.087	1.3	X	ND		ND	
	BENZO(GHI)PERYLENE	2300	0.66		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA			7			
		PRA Description			**PRA #7 CISTERN**			
		Sample Type			**Field Duplicate (Rep)**		**Normal Sample**	
		Sample Id	**SAC-ASD003-30001**		**SAC-ASU017-71001**		**SAC-ASS007-40001**	
		Depth - ft bgs	**0 - .2**		**1.5 - 2.5**		**0 - 1**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	0.93	X	ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	148		72.7		86.5	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	4.1		ND		ND	
	CHROMIUM, TOTAL	230	14.3		15.1		17.3	
	LEAD, TOTAL	400	49.7		ND		ND	
	NICKEL, TOTAL	1600	22.5		14.8		19.1	
	MERCURY, TOTAL	20	2.7		ND		ND	
	ARSENIC, TOTAL	.43	13.7	X	11.4	X	12.7	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS017-40001**		**SAC-ASU014-70001**		**SAC-ASU017-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		0.011 J		ND	
	XYLENES (TOTAL)	1000000	ND		0.015 J		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
BNA	**ACENAPHTHENE**	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS017-40001**		**SAC-ASU014-70001**		**SAC-ASU017-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	65.6		91.2		73.3	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	11.5		19.6		20.3	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	12.0		19.0		17.4	
	MERCURY, TOTAL	20	ND		ND		ND	
	ARSENIC, TOTAL	.43	8.3	X	13.2	X	10.1	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**8**					
		PRA Description	**PRA #8 LUBE OIL UT & UT FILL PORT**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS008-40001**		**SAC-ASU034-70001**		**SAC-ASU035-70001**	
		Depth - ft bgs	**0 - 1**		**10 - 12**		**10 - 12**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**8**					
		PRA Description	**PRA #8 LUBE OIL UT & UT FILL PORT**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS008-40001**		**SAC-ASU034-70001**		**SAC-ASU035-70001**	
		Depth - ft bgs	**0 - 1**		**10 - 12**		**10 - 12**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1						
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		550		ND		ND	

Notes:

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J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	9		10			
		PRA Description	PRA #9 OUTDOOR SANITATION		PRA #10 500-GALLON LRP UT			
		Sample Type	Normal Sample		Normal Sample			
		Sample Id	SAC-ASU036-70001		SAC-ASS009-40001		SAC-ASS018-40001	
		Depth - ft bgs	4 - 5		0 - 1		0 - 1	
		Collected Date	02/06/97		02/06/97		02/06/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	TOLUENE	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
BNA	ACENAPHTHENE	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	9		10			
		PRA Description	PRA #9 OUTDOOR SANITATION		PRA #10 500-GALLON LRP UT			
		Sample Type	Normal Sample		Normal Sample			
		Sample Id	SAC-ASU036-70001		SAC-ASS009-40001		SAC-ASS018-40001	
		Depth - ft bgs	4 - 5		0 - 1		0 - 1	
		Collected Date	02/06/97		02/06/97		02/06/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	72.4		86.9		78.3	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	12.8		12.6		12.8	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	ND		14.0		13.8	
	MERCURY, TOTAL	20			ND		ND	
	ARSENIC, TOTAL	.43	8.2	X	9.4	X	8.9	X
INORGANIC	CYANIDE, TOTAL	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS019-40001**		**SAC-ASU019-70001**		**SAC-ASU021-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	0.011		ND		ND	
BNA	**ACENAPHTHENE**	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASS019-40001**		**SAC-ASU019-70001**		**SAC-ASU021-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	64.8		78.2		44.4	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	15.9		20.0		10.5	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	16.1		18.4		ND	
	MERCURY, TOTAL	20	ND		ND		ND	
	ARSENIC, TOTAL	.43	13.7	X	11.3	X	7.5	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**11**					
		PRA Description	**PRA #11 2 VERTICAL LRPs**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS010-40001**		**SAC-ASS020-40001**		**SAC-ASU023-70001**	
		Depth - ft bgs	**0 - 1**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		4.8 J		ND	
	ETHYL BENZENE	7800	ND		1.0 J		ND	
	XYLENES (TOTAL)	1000000	ND		2.7 J		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**11**					
		PRA Description	**PRA #11 2 VERTICAL LRPs**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS010-40001**		**SAC-ASS020-40001**		**SAC-ASU023-70001**	
		Depth - ft bgs	**0 - 1**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1						
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		ND		200		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**12**					
		PRA Description	**PRA #12 OIL HEATER AREA**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS011-40001**		**SAC-ASU027-70001**		**SAC-ASU028-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**12**					
		PRA Description	**PRA #12 OIL HEATER AREA**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS011-40001**		**SAC-ASU027-70001**		**SAC-ASU028-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1						
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		940		420		440	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**13**					
		PRA Description	**PRA #13 FORMER PCB CLEANUP AREA**					
		Sample Type	**Field Duplicate (Rep)**		**Normal Sample**			
		Sample Id	**SAC-ASS012-41001**		**SAC-ASS012-40001**		**SAC-ASU029-70001**	
		Depth - ft bgs	**0 - 1**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000						
	ETHYL BENZENE	7800						
	XYLENES (TOTAL)	1000000						
	TETRACHLOROETHYLENE(PCE)	12						
BNA	**ACENAPHTHENE**	4700						
	FLUORENE	3100						
	PHENANTHRENE	23000						
	ANTHRACENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
	BENZO(A)ANTHRACENE	.87						
	BENZO(B)FLUORANTHENE	.87						
	CHRYSENE	87						
	BENZO(K)FLUORANTHENE	8.7						
	BENZO(A)PYRENE	.087						
	BENZO(GHI)PERYLENE	2300						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**13**					
		PRA Description	**PRA #13 FORMER PCB CLEANUP AREA**					
		Sample Type	**Field Duplicate (Rep)**		**Normal Sample**			
		Sample Id	**SAC-ASS012-41001**		**SAC-ASS012-40001**		**SAC-ASU029-70001**	
		Depth - ft bgs	**0 - 1**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/06/97**		**02/06/97**		**02/06/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87						
P/PCB	**AROCLOR-1254**	1	0.088		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CADMIUM, TOTAL	39						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	MERCURY, TOTAL	20						
	ARSENIC, TOTAL	.43						
INORGANIC	**CYANIDE, TOTAL**	1600						
	PETROLEUM HYDROCARBON		360 J		120 J		20.0	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**14**					
		PRA Description	**PRA #14 AUTO DUMP FOR SCRUBBER**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS014-40001**		**SAC-ASU031-70001**		**SAC-ASU032-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	0.012		ND		ND	
	XYLENES (TOTAL)	1000000	0.18		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
BNA	**ACENAPHTHENE**	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA	**14**					
		PRA Description	**PRA #14 AUTO DUMP FOR SCRUBBER**					
		Sample Type	**Normal Sample**					
		Sample Id	**SAC-ASS014-40001**		**SAC-ASU031-70001**		**SAC-ASU032-70001**	
		Depth - ft bgs	**0 - 1**		**1.5 - 2.5**		**4 - 5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	126		168		107	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	18.1		16.7		21.2	
	LEAD, TOTAL	400	ND		26.1		ND	
	NICKEL, TOTAL	1600	20.0		16.4		28.7	
	MERCURY, TOTAL	20	ND		ND		ND	
	ARSENIC, TOTAL	.43	11.5	X	17.2	X	16.8	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASU037-70001**		**SAC-ASU038-70001**		**SAC-ASU038-70002**	
		Depth - ft bgs	**9 - 10**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**TOLUENE**	16000	ND		ND		ND	
	ETHYL BENZENE	7800	ND		ND		ND	
	XYLENES (TOTAL)	1000000	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		0.007	
BNA	**ACENAPHTHENE**	4700	ND		ND		ND	
	FLUORENE	3100	ND		ND		ND	
	PHENANTHRENE	23000	ND		ND		ND	
	ANTHRACENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
	BENZO(A)ANTHRACENE	.87	ND		ND		ND	
	BENZO(B)FLUORANTHENE	.87	ND		ND		ND	
	CHRYSENE	87	ND		ND		ND	
	BENZO(K)FLUORANTHENE	8.7	ND		ND		ND	
	BENZO(A)PYRENE	.087	ND		ND		ND	
	BENZO(GHI)PERYLENE	2300	ND		ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**SAC-ASU037-70001**		**SAC-ASU038-70001**		**SAC-ASU038-70002**	
		Depth - ft bgs	**9 - 10**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**02/05/97**		**02/05/97**		**02/05/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
	INDENO(1,2,3-C,D)PYRENE	.87	ND		ND		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	140		72.4		77.2	
	BERYLLIUM, TOTAL	160	1.7		ND		ND	
	CADMIUM, TOTAL	39	ND		ND		ND	
	CHROMIUM, TOTAL	230	49.4		18.5		20.4	
	LEAD, TOTAL	400	25.5		ND		ND	
	NICKEL, TOTAL	1600	40.4		17.3		15.9	
	MERCURY, TOTAL	20	ND		ND		ND	
	ARSENIC, TOTAL	.43	20.6	X	12.1	X	10.8	X
INORGANIC	**CYANIDE, TOTAL**	1600	ND		ND		ND	
	PETROLEUM HYDROCARBON							

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

For all three background samples (SAC-ASU001-70001, SAC-ASU039-70001, and SAC-ASU040-70001), there was no detection of VOCs, SVOCs, or PCBs. However, laboratory analytical results indicated the presence of various metals at concentrations below the CALs with the exception of arsenic.

As provided in the CWP (June 1996), the highest concentration of a constituent detected in the background samples, or the value calculated in Appendix G, is used to establish the background concentration for the site. Background concentrations for detected metals were calculated in Appendix G and are as follows:

Arsenic	24.2 mg/kg
Barium	192.13 mg/kg
Chromium	32.93 mg/kg
Nickel	39.8 mg/kg

These values are used to evaluate the results of the remaining PRAs.

4.3.2 Random PCB Sampling Results

One random PCB investigative soil sample was collected from 0 to 6 inches bgs at each of three locations within the limits of compressor station operations. In addition, one quality control duplicate sample (SAC-ASS021-41001) also was collected. All three of the investigative soil samples and the quality control duplicate soil sample were analyzed for PCBs only.

For all three samples (SAC-ASS013-40001, SAC-ASS021-40001, and SAC-ASS022-40001) and the duplicate soil sample, there were no detections of PCB constituents.

The sump/trough was constructed of concrete and is approximately one foot deep covered with a steel grate for safety purposes. Sample (SAC-ASD001-30001) indicated no evidence of VOCs or SVOCs, but, there were detectable concentrations of PCBs and several metals, including cyanide, lead, nickel, barium, cadmium, and total chromium, below CALs and/or background. However, CAL exceedances were observed for mercury (143 mg/kg).

Another sample was collected below an open gravel collection area directly under a former metering area within the Zane CS building. Although the Zane CS building has a concrete slab floor, there are areas, such as this sample location, that do not have concrete below the meters, only gravel. Sample (SAC-ASD002-30001) indicated no evidence of VOCs, SVOCs, or PCBs. However, this sample had detectable concentrations below CALs and/or background of several metals including arsenic, mercury, lead, barium, cadmium, and total chromium.

The third sample location also was below an open gravel area directly under a former metering area within the Zane CS building. Sample (SAC-ASD003-30001) indicated no evidence of VOCs or PCBs. However, this sample had detectable concentrations of several metals and SVOCs. Detectable concentrations of metals below CALs and/or background included arsenic, mercury, lead, nickel, barium, cadmium, and total chromium.

Several SVOCs were detected both above and below CALs at this location. Analytes detected above CALs included indeno(1,2,3-cd)pyrene (0.930 mg/kg), benzo(a)pyrene (1.3 mg/kg), benzo(b)fluoranthrene (1.5 mg/kg), and benzo(a)anthracene (2.2 mg/kg).

PRA #9 Outdoor Sanitation Facility

One soil sample (SAC-ASU036-70001) was collected topographically downgradient from the site at a depth of 5 feet bgs. In addition, a liquid sample (SAC-AML001-00001) and quality control duplicate sample (SAC-AML001-01001) were collected from within the facility. All samples at this PRA were analyzed for BTEX and TPH constituents.

Both the soil and liquid samples indicated no evidence of VOCs, SVOCs, or PCBs. Although no metals were detected in either liquid sample, arsenic, barium and total chromium were detected in the soils sample below CALs and arsenic was detected above CALs and/or background.

PRA #10 Pipeline Liquid UT (500 gallons)

One boring was advanced at each end of the UT (two borings total) to a depth of 2.5 feet bgs. In addition, a surface soil sample (SAC-ASS019-40001) was collected adjacent to the UT fill port. All samples collected at this PRA were analyzed for Table 1 (CWP) constituents.

Both the southern boring samples collected from 0 to 1 foot (SAC-ASS009-40001) and 1.5 to 2.5 feet (SAC-ASU019-70001) bgs, and the northern boring samples from 0 to 1 foot (SAC-ASS018-40001) and 1.5 to 2.5 feet (SAC-ASU021-70001) bgs had no evidence of VOCs, SVOCs, or PCBs. However, some metals (arsenic, barium, chromium, nickel) were detected below CALs and/or background in all four samples. The fill port soil sample also had no detection of SVOCs or PCBs. The sample did have detectable concentrations of tetrachloroethylene (0.011 mg/kg) and some metals, but each detection was below CALs and/or background.

Laboratory analytical results of both investigative soil samples had no detection of PCB constituents. However, the duplicate sample had a detectable PCB concentration (0.088 mg/kg) below the CAL of 1 mg/kg. TPH-DRO was detected in all three soil samples at concentrations of 120 mg/kg (estimated), 360 mg/kg (estimated), and 20 mg/kg, respectively. No evidence of free product or elevated PID readings were observed at this PRA location.

PRA #14 <u>Auto Dump for Scrubber</u>

Two borings were advanced adjacent to the discharge of the auto dump for the scrubber outside the south wall of the Zane Compressor Building. Soil samples from the initial boring were collected at depths of 0 to 1 foot (SAC-ASS014-40001), 1.5 to 2.5 feet (SAC-ASU031-70001), and 4 to 5 feet (SAC-ASU032-70001) bgs. Because evidence of VOCs (through PID screening and odor) appeared to be present at the boring terminus (5 feet bgs), an additional sample (SAC-ASU037-70001) was collected for vertical delineation from 9 to 10 feet bgs. In addition, horizontal delineation also was warranted because of the detection of VOCs in the SAP-proposed boring, thus, an additional boring was advanced southwest (downgradient) of the original boring. Because of shallow groundwater encountered in the downgradient boring at approximately 3.5 feet bgs, this boring only had samples collected at 0 to 1 foot (SAC-ASU038-70001) and 1.5 to 2.5 feet (SAC-ASU038-70002) bgs. All samples collected at this PRA were analyzed for Table 1 (CWP) constituents.

SVOCs and PCBs were not detected in any of the samples collected. VOCs were detected in two samples [SAC-ASS014-40001 (ethylbenzene, total xylenes) and SAC-ASU038-70002 (tetrachloroethylene)] below CALs. Various metals (arsenic, barium, chromium, nickel) were detected below CALs and/or background in all six samples.

APPENDIX C

Test Boring Logs

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL BORING NO.: PRA2-Boring A

COORDINATES: EAST: NORTH:

ELEVATION: SURFACE: TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 5.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: AST Area #1 (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 002-70001	0.0		CLAY		
	1.5	N							
2	2.5	S-2		SAC-ASU 002-70002	0.0				
3		N							
4	4.0						4.0		
5	5.0	S-3		Sample Eliminated	0.0		CLAY; wet 5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA2-Boring A SHEET 1 OF 2

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA2-Boring B
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 5.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: AST Area #1 (Table 1)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 015-70001	0.0		CLAY		
	1.5	N							
2	2.5	S-2		SAC-ASU 008-70002	0.0				
3		N							
4	4.0						4.0		
5	5.0	S-3		Sample Eliminated	0.0		CLAY; wet 5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA2-Boring B
SHEET 1 OF 2

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA 16
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 10.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Autodump for Scrubber (Table 1)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 014-70001	30.0		CLAY		
	1.5	N							
2	2.5	S-2		SAC-ASU 031-70002	5.0				
3		N							
4	4.0						4.0		
5	5.0	S-3		Sample Eliminated	4.0		CLAY; wet		
6									
7		N							
8									
9	9.0						9.0		
10	10.0	S-4		SAC-ASU 037-70003	0.0		CLAY; stiff 10.0		
							Bottom of Boring at 10.0'		

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA 16
SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA 16A

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 5.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Autodump for Scrubber (Table 1) "Step Out" Delineation Boring

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASU 038-70001	0.0				
	1.5	N					See Test Boring PRA16 for Soil Description		
2	2.5	S-2		SAC-ASU 038-70002	0.0				
3		N					Water at 3.6'		
4	4.0								
5	5.0	S-3		Sample Eliminated			5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA 16A | SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA8-Boring A
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 12.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Lube Oil UST (BTEX, TPH), Upgradient

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1									
2		N							
3									
4	4.0								
5									
6		N							
7									
8	8.0								
9		N							
10	10.0						10.0		

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA8-Boring A
SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

CTO NO.: 22603-SAL BORING NO.: PRA8-Boring A

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11		S-1		SAC-ASU034-70001			Continued from Sheet 1		
12	12.0						12.0		
							Bottom of Boring at 12.0'		
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA8-Boring A SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA8-Boring B

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 12.0	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Lube Oil UST (BTEX, TPH), Downgradient

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1									
2		N							
3									
4	4.0								
5									
6		N							
7									
8	8.0								
9		N							
10	10.0						10.0		

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA8-Boring B | SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

CTO NO.: 22603-SAL BORING NO.: PRA8-Boring B

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11	S-1		SAC-ASU035-70001		Continued from Sheet 1		
12 12.0					12.0		
					Bottom of Boring at 12.0'		
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA8-Boring B SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL BORING NO.: PRA7-Boring A

COORDINATES: EAST: NORTH:

ELEVATION: SURFACE: TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 3.5	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Cistern (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 007-70001	0.0				
	1.5	N							
2	2.5	S-2		SAC-ASU 014-70002	35.0				
3	3.5	N					Refusal at 3.5' 3.5'		
4							Bottom of Boring at 3.5'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA7-Boring A SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA7-Boring B

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 2.5	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Cistern (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 017-70001	0.0		MS/MSD for ASS017		
	1.5	N							
2	2.5	S-2		SAC-ASU 017-70002	0.0		Duplicate for ASU017 2.5'		
3							Bottom of Boring at 2.5'		
4									
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA7-Boring B | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA11-Boring A

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 2.5	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: V.L.R.P.s (BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 010-40001	0.0		CLAY		
	1.5	N					1.5		
2	2.5	S-2		SAC-ASU 023-70001	1.0		SILTY CLAY 2.5		
3							Bottom of Boring at 2.5'		
4									
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA11-Boring A | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL BORING NO.: PRA11-Boring B

COORDINATES: EAST: NORTH:

ELEVATION: SURFACE: TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/5/97	0.0 - 2.5	Windy, cold, 30s	--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: V.L.R.P.s (BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS 020-40001	8.0		SILTY CLAY		
	1.5	N					Refusal due to Utilities 1.5		
2							Bottom of Boring at 1.5'		
3									
4									
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA11-Boring B SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA 9

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Outhouse (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1									
2		N							
3									
4	4.0						4.0		
5	5.0	S-1		SAC-ASU-036-70001	0.0		CLAYEY SILT; golden brown; damp 5.0		
							Bottom of Boring at 5.0'		
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA 9 | SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA 4
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Makeup Oil AST (BTEX, TPH)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-004-70001	0.0		SILTY CLAY; golden brown		
	1.5	N							
2	2.5	S-2		SAC-ASU-006-70002	0.0				
3		N							
4	4.0						4.0		
5	5.0	S-1		SAC-ASU-007-70003	1.0		CLAYEY SILT 5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA 4
SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA14-BoringA

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N							
2		S-1		SAC-ASU-001-70001	0.0				
3	3.0						3.0		
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA14-BoringA | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA14-BoringB

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Hand Augered	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	---	---	--	--	2/6/97	0.0 - 3.0		--
Length	---	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N							
2		S-1		SAC-ASU-039-70001	0.0		Water at 2'		
3	3.0								
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA14-BoringB | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA14-BoringC

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Hand Augered	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	—	—	—	—	2/6/97	0.0 - 3.0		--
Length	—	—	—	—				
Type	—	—	—	—				
Hammer Wt.	—	—	—	—				
Fall	—	—	—	—				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N							
2		S-1		SAC-ASU-040-70001	0.0		Water at 2'		
3	3.0								
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA14-BoringC | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA 12

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Engine Oil Heater (BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-011-70001	0.0		CLAYEY SILT; golden brown; damp to moist		
	1.5	N							
2	2.5	S-2		SAC-ASU-027-70002	0.0				
3		N							
4	4.0								
5	5.0	S-1		SAC-ASU-028-70003	3.0		5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA 12 | SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA 13
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former PCB Cleanup Area (PCBs, TPH)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1 1.0	S-1		SAC-ASS-012-40001	0.0	Collect Duplicate at S-1 (SAC-ASS012-41001) & MS/MSD		
1.5	N						
2 2.5	S-2		SAC-ASU-029-70001	0.0	Water at 2.5'		
3 4 5 5.0	N						
6 7 8 9 10					Bottom of Boring at 5.0'		

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA 13
SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL BORING NO.: PRA10-Boring A

COORDINATES: EAST: NORTH:

ELEVATION: SURFACE: TOP OF PVC CASING:

Rig: Geoprobe Rod and Sledge by Hand	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: 500 gallon Pipeline Liquid UST

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-009-40001	0.0				
	1.5	N							
2	2.5	S-2		SAC-ASU-019-70001	0.0				
3							Water at 3.5'		
4		N							
5	5.0						5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA10-Boring A SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA10-Boring B
COORDINATES:. EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe Rod and Sledge by Hand	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: 500 gallon Pipeline Liquid UST

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-018-40001	0.0				
	1.5	N							
2	2.5	S-2		SAC-ASU-021-70001	0.0				
3							Water at 3.5'		
4		N							
5	5.0						5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA10-Boring B
SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station

SO NO.: 22603-SAL | BORING NO.: PRA3-Boring A

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: ASTs/Dike (BTEX, PCB, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-003-40001	0.0	CLAYEY SILT; golden brown		
	1.5	N						
2	2.5	S-2		SAC-ASU-004-70001	0.0			
3		N						
4	4.0							
5	5.0	S-3		SAC-ASU-005-70001	0.0	5.0		
6						Bottom of Boring at 5.0'		
7								
8								
9								
10								

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA3-Boring A | SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA3-Boring B
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: ASTs/Dike (BTEX, PCB, TPH)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-016-40001	0.0		CLAYEY SILT; golden brown		
	1.5	N							
2	2.5	S-2		SAC-ASU-010-70001	0.0				
3		N							
4	4.0								
5	5.0	S-3		SAC-ASU-011-70001	0.0		5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA3-Boring B
SHEET 1 OF 1

Baker
Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Salt Creek/Zane Compressor Station
SO NO.: 22603-SAL
BORING NO.: PRA 5
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	2/6/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Underslung LRP/Drip (TPH, BTEX)

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		SAC-ASS-005-40001	0.0				
	1.5	N							
2	2.5	S-2		SAC-ASU-012-70001	0.0				
3							Water at 3.5'		
4		N							
5	5.0						5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]
BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA 5
SHEET 1 OF 1

APPENDIX G

Metals Background Concentration Worksheet

Appendix G
Metals Background Level Work Sheet
Salt Creek Compressor Station
Columbia Gas Transmission

Sample Identification Number	Constituent	Concentration (mg/kg)
SAC-ASU001-70001	ARSENIC, TOTAL	12.8
SAC-ASU039-70001	ARSENIC, TOTAL	9.8
SAC-ASU040-70001	ARSENIC, TOTAL	14.0
	Average (a):	**12.2**
	Two Times Average (b):	**24.4**
	Site Background (c):	**24.4**
SAC-ASU001-70001	BARIUM, TOTAL	107.0
SAC-ASU039-70001	BARIUM, TOTAL	101.0
SAC-ASU040-70001	BARIUM, TOTAL	80.2
	Average (a):	**96.1**
	Two Times Average (b):	**192.1**
	Site Background (c):	**192.1**
SAC-ASU001-70001	CHROMIUM, TOTAL	14.8
SAC-ASU039-70001	CHROMIUM, TOTAL	16.0
SAC-ASU040-70001	CHROMIUM, TOTAL	18.6
	Average (a):	**16.5**
	Two Times Average (b):	**32.9**
	Site Background (c):	**32.9**
SAC-ASU001-70001	NICKEL, TOTAL	19.0
SAC-ASU039-70001	NICKEL, TOTAL	18.6
SAC-ASU040-70001	NICKEL, TOTAL	22.1
	Average (a):	**19.9**
	Two Times Average (b):	**39.8**
	Site Background (c):	**39.8**

Notes:

(a) - Arithmetic mean of all samples.
(b) - According to USEPA, Region IV, two times the average background concentration may be used as the site background concentration for inorganics.
(c) - Site Background concentration is the higher of the maximum detected and the two times average background concentrations.