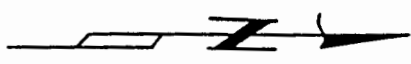
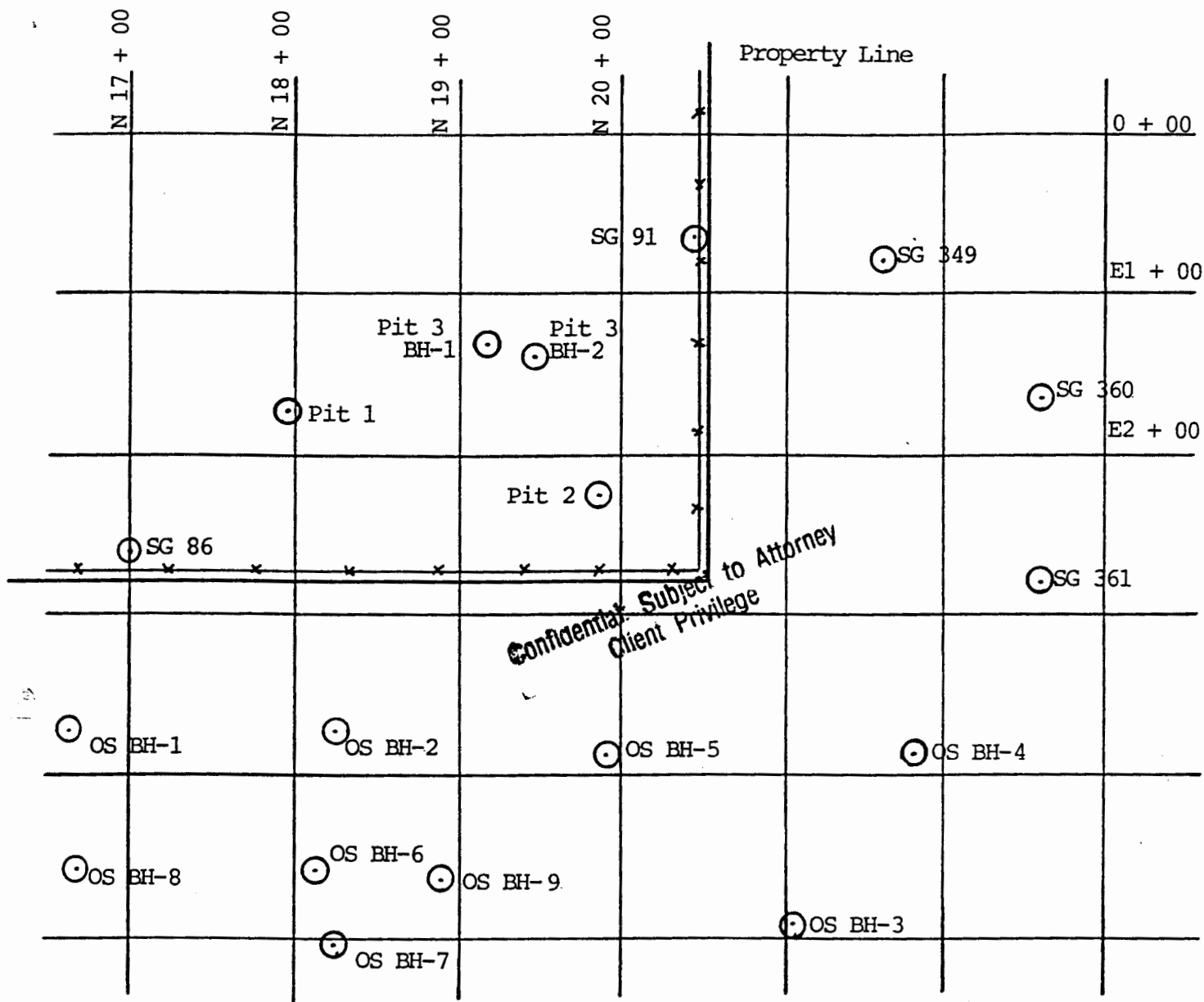


A borehole investigation was performed by METRIC Corporation in July, 1991 to determine if contamination was present from the activities associated with three (3) earthen surface impoundments. 20 boreholes were completed to an impermeable clay layer or presence of subsurface liquids. Samples were collected of the contaminated soils and liquid material encountered. Sampling parameters for the soils included the following analytes: purgeable halocarbons, aromatic volatile organics and total petroleum hydrocarbons.



SCALE: 1" = 100'

FIGURE 1
 BOREHOLE LOCATIONS
 FOR SUBSURFACE INVESTIGATION
 ROSWELL COMPRESSOR STATION

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER										
	Pit 1 1.8'-3.0'	Pit 1 9.2'-9.4'	Pit 1 13.5'-13.7'	Pit 1 18.8'-19.0'	Pit 1 26.8'-27.0'	Pit 1 30.6'-30.8'	Pit 1 41.6'-41.8'	Pit 1 43.5'-43.7'	Pit 2 001	Pit 2 002 (18.7'-18.9')	Pit 2 26.0'-26.2'
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>											
1,1,1-Trichloroethane	3.2	19	18	0.33	BDL	BDL	BDL	BDL	BDL	0.37	BDL
Tetrachloroethene	BDL	0.26	0.33	0.87	0.16	BDL	BDL	BDL	BDL	0.65	BDL
Chloroform	BDL	BDL	0.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	0.59	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Confidential: Subject to Attorney
Client Privilege

PARAMETER	SAMPLE NUMBER									
	Pit 2 29.1'-29.3'	Pit 2 39.8'-39.9'	Pit 2 44.1'-44.3'	Pit 2 57.5'-57.8'	Pit 2 69.0'-70.1'	Pit 3, BH-1 30.7'-30.9'	Pit 3, BH-2 25.0'-25.2'	SG 86 13.5'-13.7'	SG 86 18.7'-18.9'	
<u>Purgeable Halocarbon</u> <u>Compounds (mg/kg)</u> <u>Method 8010</u>										
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	BDL	
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	0.23	

TABLE 2 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	SG 86	SG 86	SG 86	SG 91	SG 349	SG 349	SG 349	SG 349	SG 349	SG 349
	24.9'-25.1'	35.0'-35.2'	40.5'-40.7'	28.6'-28.8'	0.0'-1.8'	2.9'-4.6'	9.0'-10.0'	14.0'-14.8'	20.3'-21.3'	5.3'-26.3'

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

Confidential: Subject to Attorney
Client Privilege

PARAMETER	SAMPLE NUMBER									
	SG 349	SG 360	SG 360	SG 360	SG 360	SG 360	SG 360	SG 360	SG 360	SG 361
	29.7'-30.4'	0.0'-2.5'	4.0'-5.0'	9.0'-9.9'	14.0'-14.7'	19.0'-20.0'	24.0'-25.0'	29.0'-29.4'		0.0'-2.5'

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

PARAMETER	SAMPLE NUMBER									
	SG 361	SG 361	SG 361	SG 361	SG 361	SG 361	OS BH-1	OS BH-1	OS BH-2	OS BH-2
	4.0'-5.0'	9.0'-10.0'	16.0'-16.4'	19.5'-19.8'	24.0'-25.0'	38.0'-39.3'	18.9'-19.1'	34.3'-34.5'	9.9'-10.1'	22.5'-22.6'

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL

TABLE 2 (Continued)

SUMMARY OF ANALYTICAL RESULTS FOR PURGEABLE HALOCARBON OCCURRENCE
AT ROSWELL COMPRESSOR STATION

PARAMETER	SAMPLE NUMBER									
	OS BH-2 31.1'-31.3'	OS BH-2 41.8'-42.0'	OS BH-2 55.2'-55.4'	OS BH-2 69.0'-69.2'	OS BH-3 21.0'-21.2'	OS BH-3 44.1'-44.3'	OS BH-3 54.7'-55.0'	OS BH-3 54.7'-55.0'	OS BH-4 27.5'-27.7'	

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL

Confidential: Subject to Attorney
Client Privilege

PARAMETER	SAMPLE NUMBER									
	OS BH-5 14.0'-14.2'	OS BH-5 19.6'-19.9'	OS BH-5 23.4'-23.6'	OS BH-6 13.6'-13.8'	OS BH-6 47.0'-47.2'	OS BH-6 52.6'-52.8'	OS BH-6 70.0'-71.0'	OS BH-7 22.1'-22.3'	OS BH-7 33.5'-33.7'	

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

BDL BDL BDL BDL BDL BDL BDL BDL

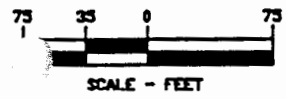
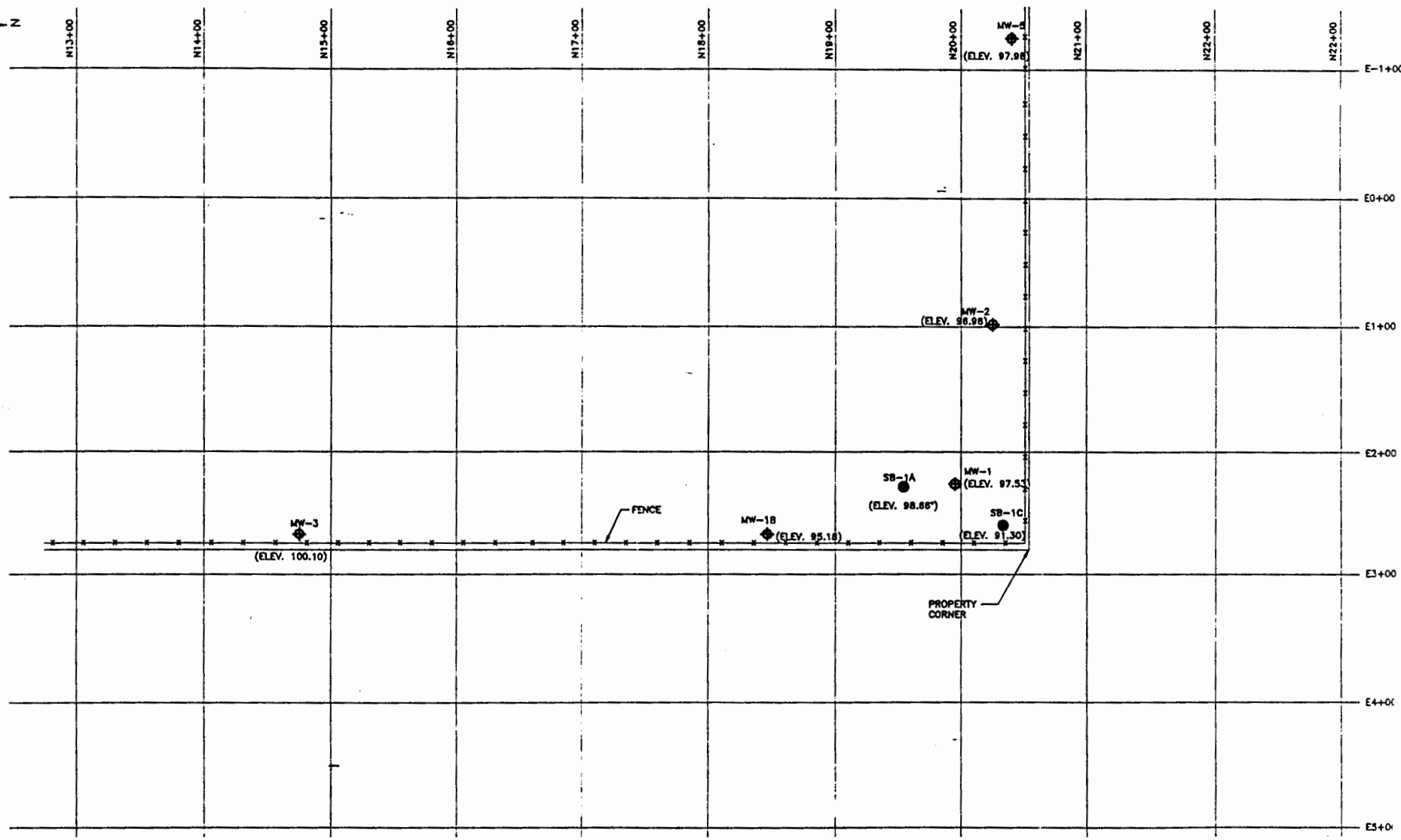
PARAMETER	SAMPLE NUMBER						
	OS BH-7 37.0'-37.2'	OS BH-8 4.6'-4.9'	OS BH-8 33.9'-34.1'	OS BH-8 49.7'-49.9'	OS BH-9 4.5'-4.9'	OS BH-9 32.0'-32.5'	OS BH-9 49.5'-49.7'

Purgeable Halocarbon
Compounds (mg/kg)
Method 8010

Tetrachloroethene	0.17	BDL	0.16	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	0.12	BDL	BDL	BDL	BDL

BDL = below detection limit of 0.1 mg/kg.

This sampling from monitor well MW-1 was screened in the perched aquifer and uppermost aquifer and constructed in July, 1992, by HALIBURTON NUS. Groundwater sampling was performed on September 21, 1992, for the following parameters: volatile organics, semi volatile organics, total petroleum hydrocarbons, and TC metals.



LEGEND
 SB-4 ● - SOIL BORINGS
 MW-1 ⊕ - MONITOR WELLS

DRAWN BY	EG
DATE	6/23/93
ENGINEER	S. RICHARD
DATE	6/23/93
CAD DWG. NO.	TRANSIC.DWG

FIGURE 2-1

MONITOR WELL/BORING LOCATIONS			
ROSWELL COMPRESSOR			
STATION NO. 9			
TRANSWESTERN PIPELINE COMPANY			
SCALE:	1"=75'-0"	BRE. DWG. NO.	ST72-BA
		REV.	0



TABLE 3-2 (Continued)
SEMI-VOLATILE ORGANICS
ANALYTICAL DATA IN μ
TRANSWESTERN COMPRESSOR STATION NO. 9
ROSWELL, NEW MEXICO

ANALYTE	RESULT
Diethyl phthalate	< 33
Dimethyl phthalate	< 33
Fluoranthene	< 33
Fluorene	< 33
Hexachlorobenzene	< 33
Hexachlorobutadiene	< 33
Hexachlorocyclopentadiene	< 33
Hexachloroethane	< 33
Indeno(1,2,3-cd)pyrene	< 33
Isophorone	< 33
N-Nitrosodimethylamine	< 33
N-Nitrosodiphenylamine	< 33
Naphthalene	34
Nitrobenzene	< 33
Pentachlorophenol	< 160
Phenanthrene	< 33
Phenol	< 33
Pyrene	< 33
Pyridine	< 66
n-Nitroso-di-n-propylamine	< 33

TABLE 3-3

TOTAL PETROLEUM HYDROCARBONS
ANALYTICAL DATA IN MG/L
TRANSWESTERN COMPRESSOR STATION NO. 9
ROSWELL, NEW MEXICO

ANALYTE	RESULT
Total Petroleum Hydrocarbons	37

TABLE 3-4

METALS
 ANALYTICAL DATA IN MG/L
 TRANSWESTERN COMPRESSOR STATION NO. 9
 ROSWELL, NEW MEXICO

ANALYTE	RESULT
Arsenic	0.19
Barium	4.4
Cadmium	< 0.005
Chromium	0.01
Mercury	< 0.0002
Silver	< 0.01
Lead	< 0.05
Selenium	< 0.003

HCL
 Ar 0.05 *11"*
 Ba 1.0 *11"*

TABLE 3-1 (Continued)
 VOLATILE ORGANICS
 ANALYTICAL DATA IN $\mu\text{g/L}$
 TRANSWESTERN COMPRESSOR STATION NO. 9
 ROSWELL, NEW MEXICO

ANALYTE	RESULT
Chloroform	< 30
Chloromethane	< 60
Dibromomethane	< 30
Dichlorodifluoromethane	< 120
Ethanol	*
Ethyl methacrylate	< 60
Ethylbenzene	110
Iodomethane (Methyl iodide)	< 60
Methylene chloride	< 60
P/M xylene	820
Styrene	< 30
Tetrachloroethene	< 30
Toluene	61
Trichloroethene	< 30
Trichlorofluoromethane	< 30
Vinyl acetate	< 60
Vinyl chloride	< 60
cis-1,2-Dichloroethene	< 30
cis-1,3-Dichloropropane	< 30
o-Xylene	120
trans-1,2-Dichloroethene	< 30
trans-1,3-Dichloropropene	< 30

NOTE: * This analyte was not detected by a computerized search of the chromatogram.

TABLE 3-2

SEMI-VOLATILE ORGANICS
ANALYTICAL DATA IN $\mu\text{G/L}$
TRANSWESTERN COMPRESSOR STATION NO. 9
ROSWELL, NEW MEXICO

ANALYTE	RESULT
1,2,4-Trichlorobenzene	< 33
1,2-Dichlorobenzene	< 33
1,3-Dichlorobenzene	< 33
1,4-Dichlorobenzene	< 33
2,4,5-Trichlorophenol	< 66
2,4,6-Trichlorophenol	< 33
2,4-Dichlorophenol	< 33
2,4-Dimethylphenol	< 33
2,4-Dinitrophenol	< 160
2,4-Dinitrotoluene	< 33
2,6-Dinitrotoluene	< 33
2-Chloronaphthalene	< 33
2-Chlorophenol	< 33
2-Methylnaphthalene	51
2-Methylphenol (o-Cresol)	< 33
2-Nitroaniline	< 160
2-Nitrophenol	< 33
3,3'-Dichlorobenzidine	< 66
3-Methylphenol	< 33
3-Nitroaniline	< 160
4,6-Dinitro-2-methylphenol	< 160
4-Bromophenyl phenyl ether	< 33
4-Chloro-3-methylphenol	< 33
4-Chloroaniline	< 33
4-Chlorophenyl phenyl ether	< 33

TABLE 3-2 (Continued)
 SEMI-VOLATILE ORGANICS
 ANALYTICAL DATA IN $\mu\text{G/L}$
 TRANSWESTERN COMPRESSOR STATION NO. 9
 ROSWELL, NEW MEXICO

ANALYTE	RESULT
4-Methylphenol	250
4-Nitroaniline	< 160
4-Nitrophenol	< 160
Acenaphthene	< 33
Acenaphthylene	< 33
Acetophenone	< 33
Aniline	< 33
Anthracene	< 160
Benzidine	< 33
Benzo(a)anthracene	< 33
Benzo(a)pyrene	< 33
Benzo(b)fluoranthene	< 33
Benzo(ghi)perylene	< 33
Benzo(k)fluoranthene	< 160
Benzoic Acid	< 33
Benzyl alcohol	< 33
Benzyl butyl phthalate	< 33
Bis(2-Chloroethoxy)methane	< 33
Bis(2-Chloroethyl)ether	< 33
Bis(2-Chloroisopropyl)ether	< 33
Bis(2-Ethylhexyl)phthalate	< 33
Chrysene	< 33
Di-n-butyl phthalate	< 33
Di-n-octyl phthalate	< 33
Dibenzofuran	< 33

TABLE 3-1

VOLATILE ORGANICS
ANALYTICAL DATA IN $\mu\text{G/L}$
TRANSWESTERN COMPRESSOR STATION NO. 9
ROSWELL, NEW MEXICO

ANALYTE	RESULT
1,1,1-Trichloroethane	180
1,1,2,2-Tetrachloroethane	< 30
1,1,2-Trichloroethane	< 30
1,1-Dichloroethane	560
1,1-Dichloroethene	< 30
1,2,3-Trichloropropane	< 30
1,2-Dichloroethane	< 30
1,2-Dichloropropane	< 30
1,4-Dichloro-2-butene	< 60
2-Butanone (MEK)	220
2-Chloroethylvinyl Ether	< 60
2-Hexanone	< 60
4-Methyl-2-Pentanone (MIBK)	< 60
Acetone	< 60
Acrolein	< 600
Acrylonitrile	< 600
Benzene	370
Bromodichloromethane	< 30
Bromoform	< 30
Bromomethane	< 60
Carbon disulfide	< 30
Carbon tetrachloride	< 30
Chlorobenzene	< 30
Chlorodibromomethane	< 30
Chloroethane	< 60

Monitor wells MW-3 and MW-5 were constructed in April of 1993 by Brown and Root Environmental.. Each monitor well was completed into the uppermost aquifer, and sampled during the construction and completion period. Parameters sampled included volatile organics, total dissolved solids and total petroleum hydrocarbons. Water samples were collected to determine the potential for contamination in the lower zone. Two (2) soil samples were collected from each of the following borings: SB-1B,SB-2,SB-3,SB-4 and SB-5. Each sample was collected from the interval above the saturation zone and interval above the upper clay strata determine vertical extent of hydrocarbon contamination. Only one soil sample was collected from borings SB-1A and SB-1C. These samples were collected in the interval above the upper clay zone. Soil borings SB-1B and SB-2 were then completed as monitor wells MW-1B and MW-2, respectively.

May 12, 1993
 Report No.: 00024452
 Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
 ADDRESS: P.O. BOX 1717
 ROSWELL, NM 88202-1717
 ATTENTION: LARRY CAMPBELL

LSG CLIENT NO: 0734 0002
 PACE PROJECT: H07340002
 PACE CLIENT: 620562

SAMPLE ID: MW-3
 LSG SAMPLE NO: H0235758
 P.O. NO.: VERBAL

DATE SAMPLED: 30-APR-93
 DATE RECEIVED: 03-MAY-93
 APPROVED BY: L Beyer

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	OVPPW	Volatiles in Water		
		1,1,1-Trichloroethane	< 5	ug/L
		1,1,2,2-Tetrachloroethane	< 5	ug/L
		1,1,2-Trichloroethane	< 5	ug/L
		1,1-Dichloroethane	< 5	ug/L
		1,1-Dichloroethene	< 5	ug/L
		1,2-Dichloroethane	< 5	ug/L
		1,2-Dichloroethene (total)	< 5	ug/L
		1,2-Dichloropropane	< 5	ug/L
		2-Chloroethylvinylether	< 10	ug/L
		Acrolein	< 100	ug/L
		Acrylonitrile	< 100	ug/L
		Benzene	< 5	ug/L
		Bromoform	< 5	ug/L
		Bromomethane	< 10	ug/L
		Carbon tetrachloride	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Chlorodibromomethane	< 5	ug/L
		Chloroethane	< 10	ug/L
		Chloroform	< 5	ug/L
		Chloromethane	< 10	ug/L
		Dichlorobromomethane	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Tetrachloroethene	< 5	ug/L
		Toluene	< 5	ug/L
		Trichloroethene	< 5	ug/L
		Vinyl chloride	< 10	ug/L
		cis-1,3-Dichloropropene	< 5	ug/L
		trans-1,3-Dichloropropene	< 5	ug/L

May 12, 1993
Report No.: 00024452
Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
SAMPLE ID: MW-3
LSG SAMPLE NO: H0235758

LN	TEST CODE	DETERMINATION	RESULT	UNITS
3	1590	Solids, Dissolved at 180C	3,400	mg/L
4	1685	Petroleum Hydrocarbons	< 0.2	mg/L

COMMENTS:

May 12, 1993
 Report No.: 00024452
 Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
 ADDRESS: P.O. BOX 1717
 ROSWELL, NM 88202-1717
 ATTENTION: LARRY CAMPBELL
 SAMPLE ID: MW-5
 LSG SAMPLE NO: H0235759
 P.O. NO.: E51209/ROSWELL

LSG CLIENT NO: 0734 0002
 PACE PROJECT: H07340002
 PACE CLIENT: 620562

DATE SAMPLED: 30-APR-93
 DATE RECEIVED: 03-MAY-93
 APPROVED BY: L Beyer

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVPPW	Volatiles in Water		
		1,1,1-Trichloroethane	< 5	ug/L
		1,1,2,2-Tetrachloroethane	< 5	ug/L
		1,1,2-Trichloroethane	< 5	ug/L
		1,1-Dichloroethane	< 5	ug/L
		1,1-Dichloroethene	< 5	ug/L
		1,2-Dichloroethane	< 5	ug/L
		1,2-Dichloroethene (total)	< 5	ug/L
		1,2-Dichloropropane	< 5	ug/L
		2-Chloroethylvinylether	< 10	ug/L
		Acrolein	< 100	ug/L
		Acrylonitrile	< 100	ug/L
		Benzene	< 5	ug/L
		Bromoform	< 5	ug/L
		Bromomethane	< 10	ug/L
		Carbon tetrachloride	< 5	ug/L
		Chlorobenzene	< 5	ug/L
		Chlorodibromomethane	< 5	ug/L
		Chloroethane	< 10	ug/L
		Chloroform	< 5	ug/L
		Chloromethane	< 10	ug/L
		Dichlorobromomethane	< 5	ug/L
		Ethylbenzene	< 5	ug/L
		Methylene chloride	< 5	ug/L
		Tetrachloroethene	< 5	ug/L
		Toluene	< 5	ug/L
		Trichloroethene	< 5	ug/L
		Vinyl chloride	< 10	ug/L
		cis-1,3-Dichloropropene	< 5	ug/L
		trans-1,3-Dichloropropene	< 5	ug/L
3	1590	Solids, Dissolved at 180C	3,800	mg/L
4	I685	Petroleum Hydrocarbons	< 0.2	mg/L

May 12, 1993
Report No.: 00024452
Section A Page 4

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
SAMPLE ID: MW-5
LSG SAMPLE NO: H0235759

LN	TEST CODE	DETERMINATION	RESULT	UNITS
----	-----------	---------------	--------	-------

COMMENTS:

May 12, 1993
Report No.: 00024452
Section A Page 5

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
ADDRESS: P.O. BOX 1717
ROSWELL, NM 88202-1717
ATTENTION: LARRY CAMPBELL

SAMPLE ID: SB-5-1921
LSG SAMPLE NO: H0235760
P.O. NO.: E51209/ROSWELL

LSG CLIENT NO: 0734 0002
PACE PROJECT: H07340002
PACE CLIENT: 620562

DATE SAMPLED: 29-APR-93
DATE RECEIVED: 03-MAY-93
APPROVED BY: L Beyer

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	I685S	Petroleum Hydrocarbons	< 20	mg/kg

COMMENTS:

May 12, 1993
Report No.: 00024452
Section A Page 6

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
ADDRESS: P.O. BOX 1717
ROSWELL, NM 88202-1717
ATTENTION: LARRY CAMPBELL

LSG CLIENT NO: 0734 0002
PACE PROJECT: H07340002
PACE CLIENT: 620562

SAMPLE ID: SB-5-6466
LSG SAMPLE NO: H0235761
P.O. NO.: E51209/ROSWELL

DATE SAMPLED: 29-APR-93
DATE RECEIVED: 03-MAY-93
APPROVED BY: L Beyer

<u>LN</u>	<u>TEST CODE</u>	<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNITS</u>
1	I685S	Petroleum Hydrocarbons	< 20	mg/kg

COMMENTS:

May 12, 1993
Report No.: 00024452
Section A Page 7

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
ADDRESS: P.O. BOX 1717
ROSWELL, NM 88202-1717
ATTENTION: LARRY CAMPBELL

LSG CLIENT NO: 0734 0002
PACE PROJECT: H07340002
PACE CLIENT: 620562

SAMPLE ID: SB1C-2526
LSG SAMPLE NO: H0235762
P.O. NO.: E51209/ROSWELL

DATE SAMPLED: 29-APR-93
DATE RECEIVED: 03-MAY-93
APPROVED BY: L Beyer

<u>LN</u>	<u>TEST CODE</u>	<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNITS</u>
1	I685S	Petroleum Hydrocarbons	< 20	mg/kg

COMMENTS:

May 12, 1993
 Report No.: 00024452
 Section B Page 1

QUALITY CONTROL REPORT
 SUPPLEMENTAL INFORMATION

TEST		SAMPLE PREPARATION				SAMPLE ANALYSIS				
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	LR-METHOD	DATE/TIME	ANALYST	BATCH	INSTRUMENT

SAMPLE ID: MW-3

LSG SAMPLE NO: H0235758

1	OVPPW	30795	NA			05-624	06-MAY-93	2037 J P	30724	GMSR
3	1590	30720	NA			02-160.1	03-MAY-93	2300 D P	0	005WAT
4	1685	30692	02-418.1			02-418.1	04-MAY-93	700 Rac	0	302WAT

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 05 EPA-40 CFR 136, October 26, 1984.

SAMPLE ID: MW-5

LSG SAMPLE NO: H0235759

1	OVPPW	30795	NA			05-624	06-MAY-93	2107 J P	30724	GMSR
3	1590	30720	NA			02-160.1	03-MAY-93	2300 D P	0	005WAT
4	1685	30692	02-418.1			02-418.1	04-MAY-93	700 Rac	0	302WAT

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 05 EPA-40 CFR 136, October 26, 1984.

SAMPLE ID: SB-5-1921

LSG SAMPLE NO: H0235760

1	1685S	30691	19-3550			02-418.1	04-MAY-93	700 Rac	0	302WAT
---	-------	-------	---------	--	--	----------	-----------	---------	---	--------

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986

SAMPLE ID: SB-5-6466

LSG SAMPLE NO: H0235761

1	1685S	30691	19-3550			02-418.1	04-MAY-93	700 Rac	0	302WAT
---	-------	-------	---------	--	--	----------	-----------	---------	---	--------

LR Method Literature Reference

QUALITY CONTROL REPORT
 SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION -----					----- SAMPLE ANALYSIS -----				
TEST	LR-				LR-	ANLS			
LN	CODE	BATCH	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANALYST	BATCH	INSTRUMENT

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986

SAMPLE ID: SB1C-2526

LSG SAMPLE NO: H0235762

1	I685S	30691	19-3550		02-418.1	04-MAY-93	700	Rac	0	302WAT
---	-------	-------	---------	--	----------	-----------	-----	-----	---	--------

LR Method Literature Reference

- 02 EPA-Methods for Chemical Analysis of Water & Wastes, 1984.
- 19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986

REPORT OF LABORATORY ANALYSIS

May 12, 1993
 Report No.: 00024452
 Section C Page 1

QUALITY CONTROL REPORT
 SURROGATE STANDARD RECOVERY

TEST LN	SURROGATE CODE	COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: MW-3			LSG SAMPLE NO: H0235758		
2	\$VOAW	GC/MS Volatiles Surrogates			1
		1,2-Dichloroethane-d4	107	-	
		4-Bromofluorobenzene	107	-	
		Toluene-d8	99	-	
SAMPLE ID: MW-5			LSG SAMPLE NO: H0235759		
2	\$VOAW	GC/MS Volatiles Surrogates			1
		1,2-Dichloroethane-d4	108	-	
		4-Bromofluorobenzene	106	-	
		Toluene-d8	96	-	

REPORT OF LABORATORY ANALYSIS

May 12, 1993
Report No.: 00024452
Section D Page 1

QUALITY CONTROL REPORT
LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	PERCENT RECOVERY	ACCEPTANCE LIMITS
BATCH: 30691	SAMPLE ID: Lab Control Sample		LSG SAMPLE NO: H0236448
	I685S Petroleum Hydrocarbons	102.0	-
BATCH: 30692	SAMPLE ID: Lab Control Sample		LSG SAMPLE NO: H0236450
	I685 Petroleum Hydrocarbons	104.0	-

QUALITY CONTROL REPORT
 METHOD BLANK DATA

TEST CODE	Determination	RESULT	UNITS
BATCH: 30691	SAMPLE ID: Method Blank	LSG SAMPLE NO:	H0236449
I685S	Petroleum Hydrocarbons	< 20	mg/kg
BATCH: 30692	SAMPLE ID: Method Blank	LSG SAMPLE NO:	H0236451
I685	Petroleum Hydrocarbons	< 0.2	mg/L
BATCH: 30720	SAMPLE ID: Method Blank	LSG SAMPLE NO:	H0236491
I590	Solids, Dissolved at 180C	< 10	mg/L
BATCH: 30795	SAMPLE ID: Method Blank	LSG SAMPLE NO:	H0237606
OVPPW	Volatiles in Water		
	1,1,1-Trichloroethane	< 5	ug/L
	1,1,2,2-Tetrachloroethane	< 5	ug/L
	1,1,2-Trichloroethane	< 5	ug/L
	1,1-Dichloroethane	< 5	ug/L
	1,1-Dichloroethene	< 5	ug/L
	1,2-Dichloroethane	< 5	ug/L
	1,2-Dichloroethene (total)	< 5	ug/L
	1,2-Dichloropropane	< 5	ug/L
	1,3-Dichloropropylene	< 5	ug/L
	2-Chloroethylvinylether	< 10	ug/L
	Acrolein	< 100	ug/L
	Acrylonitrile	< 100	ug/L
	Benzene	< 2	ug/L
	Bromoform	< 5	ug/L
	Bromomethane	< 10	ug/L
	Carbon tetrachloride	< 5	ug/L
	Chlorobenzene	< 2	ug/L
	Chlorodibromomethane	< 5	ug/L
	Chloroethane	< 10	ug/L
	Chloroform	< 5	ug/L
	Chloromethane	< 10	ug/L
	Dichlorobromomethane	< 5	ug/L
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Tetrachloroethene	< 5	ug/L
	Toluene	< 2	ug/L
	Trichloroethene	< 5	ug/L

QUALITY CONTROL REPORT
METHOD BLANK DATA

TEST CODE	Determination	RESULT	UNITS
	Vinyl chloride	< 10	ug/L
	cis-1,3-Dichloropropene	< 5	ug/L
	trans-1,3-Dichloropropene	< 5	ug/L

REPORT OF LABORATORY ANALYSIS

May 12, 1993
 Report No.: 00024452
 Section F Page 1

QUALITY CONTROL REPORT
 DUPLICATE AND MATRIX SPIKE DATA

PREP BATCH: 30720

LSG SAMPLE NO: H0235758

<u>TEST</u>	<u>DETERMINATION</u>	<u>ORIGINAL</u> <u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RANGE /</u> <u>RPD</u>	<u>UNITS</u>	<u>MS</u> <u>RESULT</u>	<u>MS %</u> <u>RCVRY</u>
I590	Solids, Dissolved at 180C	3,400	3,400	mg/L	0.0	mg/L		

PREP BATCH: 30691

LSG SAMPLE NO: H0235762

<u>TEST</u>	<u>DETERMINATION</u>	<u>ORIGINAL</u> <u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RANGE /</u> <u>RPD</u>	<u>UNITS</u>	<u>MS</u> <u>RESULT</u>	<u>MS %</u> <u>RCVRY</u>
I685S	Petroleum Hydrocarbons	< 20	< 20	mg/kg	---	mg/kg	360	111.0

REPORT OF LABORATORY ANALYSIS

May 12, 1993
Report No.: 00024452
Section H Page 1

QUALITY CONTROL REPORT
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE DATA

ANLS BATCH: 30724

LSG SAMPLE NO: H0235403

<u>TEST</u>	<u>DETERMINATION</u>	<u>MS</u> <u>RESULT</u>	<u>MSD</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>MS PCT</u> <u>RECOVERY</u>	<u>MSD PCT</u> <u>RECOVERY</u>
OVPPW	1,1-Dichloroethene	51.9	43.1	ug/L	18.7	104	86
OVPPW	Benzene	50.8	46.3	ug/L	9.29	102	93
OVPPW	Chlorobenzene	49.0	46.3	ug/L	5.75	98	93
OVPPW	Toluene	49.5	45.3	ug/L	8.81	99	91
OVPPW	Trichloroethene	49.9	44.5	ug/L	11.5	100	89



107537

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client TRANSWESTERN PIPELINE Co.

Report To: LARRY CAMPBELL

Pace Client No. _____

Address PO Box 1717

Bill To: Same

Pace Project Manager _____

ROSWELL, NM 88202-1717

P.O. # / Billing Reference _____

Pace Project No. _____

Phone (505) 625-8022

Project Name / No. ROSWELL / 5T72

*Requested Due Date: _____

Sampled By (PRINT):

SUSANNE RICHARD

Sampler Signature

Date Sampled

[Signature]

4-30-97

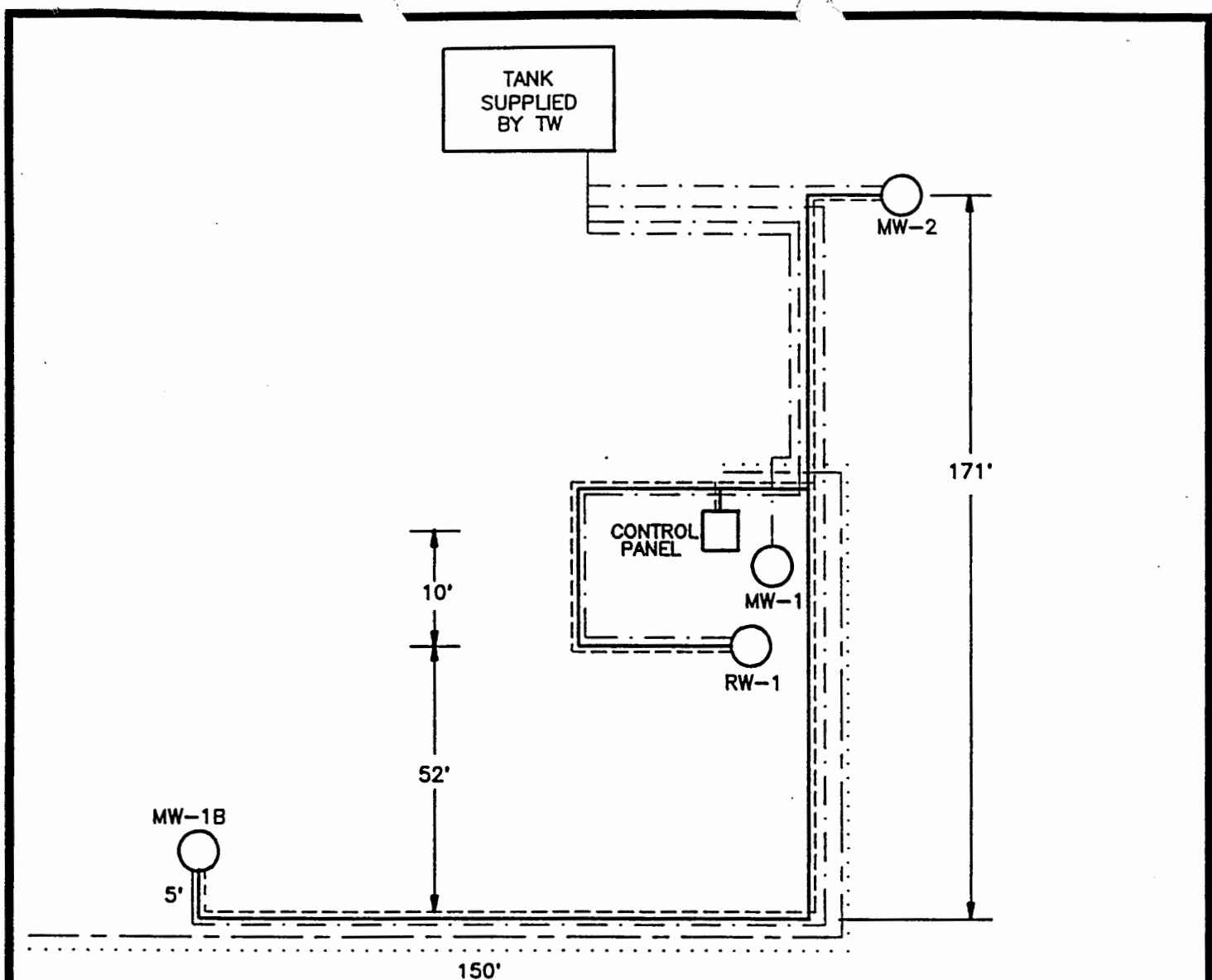
ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA		
1	MW-3	1310	LIQUID		4	1	1	2		1 1 2	LOW FT CLEAN?
2	MW-5	1515	LIQUID		4	1	1	2		1 1 2	CLEAN?
3	SB-5-1921	1330	SOIL		1	1				1	"
4	SB 5-6466	1749	SOIL		1	1				1	"
5	SB 1c - 2526	1345	SOIL		1	1				1	"
6											
7											
8											

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
					<u>Susanne R. Richard</u>	<u>Jennifer Adams / PACE</u>	<u>5/3</u>	<u>0930</u>

Additional Comments

#A235758-762

Monitor well MW-2, constructed in April of 1993, and completed into the uppermost aquifer, was sampled in October 9, 1993 for volatile and semi volatile organics. The purpose of collecting this sample was to determine potential for horizontal extent and presence of contamination in this lower zone.



DEPTH TO
PRODUCT/REMOVAL
PUMPS

LEGEND	WELL	DEPTH TO PRODUCT/REMOVAL PUMPS
————— -	MW-1B	60'
- - - - -	MW-2	60'
- . - . -	RW-1	40'
————— -		
.....		

FIGURE 1
ROSWELL SYSTEM SCHEMATIC
(N.T.S.)

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
 ADDRESS: P.O. BOX 1717
 ROSWELL, NM 88202-1717
 ATTENTION: LARRY CAMPBELL

LSG CLIENT NO: 0734 0050
 PACE PROJECT: H07340050
 PACE CLIENT: 620562

SAMPLE ID: GROUNDWATER MW-2, STATION 9
 LSG SAMPLE NO: H0254783
 P.O. NO.: VERBAL

DATE SAMPLED: 09-OCT-93
 DATE RECEIVED: 15-OCT-93
 APPROVED BY: L Beyer

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	OVTW	TCL - Volatiles in Water		
		1,1,1-Trichloroethane	< 300	ug/L
		1,1,2,2-Tetrachloroethane	< 300	ug/L
		1,1,2-Trichloroethane	< 300	ug/L
		1,1-Dichloroethane	< 300	ug/L
		1,1-Dichloroethene	< 300	ug/L
		1,2-Dichloroethane	< 300	ug/L
		1,2-Dichloroethene (total)	< 300	ug/L
		1,2-Dichloropropane	< 300	ug/L
		2-Butanone	< 600	ug/L
		2-Hexanone	< 600	ug/L
		4-Methyl-2-pentanone	< 600	ug/L
		Acetone	< 600	ug/L
		Benzene	6,500	ug/L
		Bromodichloromethane	< 300	ug/L
		Bromoform	< 300	ug/L
		Bromomethane	< 600	ug/L
		Carbon disulfide	< 300	ug/L
		Carbon tetrachloride	< 300	ug/L
		Chlorobenzene	< 300	ug/L
		Chloroethane	< 600	ug/L
		Chloroform	< 300	ug/L
		Chloromethane	< 600	ug/L
		Dibromochloromethane	< 300	ug/L
		Ethylbenzene	2,100	ug/L
		Methylene chloride	< 300	ug/L
		Styrene	< 300	ug/L
		Tetrachloroethene	< 300	ug/L
		Toluene	15,000	ug/L
		Trichloroethene	< 300	ug/L

LABORATORY ANALYSIS REPORT

CLIENT NAME: TRANSWESTERN PIPELINE COMPANY
SAMPLE ID: GROUNDWATER MW-2, STATION 9
LSG SAMPLE NO: H0254783

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		Vinyl acetate	< 600	ug/L
		Vinyl chloride	< 600	ug/L
		Xylene(total)	13,000	ug/L
		cis-1,3-Dichloropropene	< 300	ug/L
		trans-1,3-Dichloropropene	< 300	ug/L

COMMENTS:

REPORT OF LABORATORY ANALYSIS

October 27, 1993
 Report No.: 00028199
 Section B Page 1

QUALITY CONTROL REPORT
 SUPPLEMENTAL INFORMATION

----- SAMPLE PREPARATION -----					----- SAMPLE ANALYSIS -----					
TEST	LR-				LR-	ANLS				
LN	CODE	BATCH	METHOD	DATE/TIME	ANALYST	METHOD	DATE/TIME	ANALYST	BATCH	INSTRUMENT

SAMPLE ID: GROUNDWATER MW-2, STATION 9

LSG SAMPLE NO: H0254783

1	OVTWC	34916	NA			05-624	21-OCT-93 1939	J P	34915	GCMSR
---	-------	-------	----	--	--	--------	----------------	-----	-------	-------

LR Method Literature Reference

05 EPA-40 CFR 136, October 26, 1984.

QUALITY CONTROL REPORT
 SURROGATE STANDARD RECOVERY

LN	TEST CODE	SURROGATE COMPOUND	PERCENT RECOVERY	ACCEPTANCE LIMITS	REF LN
SAMPLE ID: GROUNDWATER MW-2, STATION 9			LSG SAMPLE NO: H0254783		
2	\$VOAW	GC/MS Volatiles Surrogates			1
		1,2-Dichloroethane-d4	92	-	
		4-Bromofluorobenzene	98	-	
		Toluene-d8	95	-	

QUALITY CONTROL REPORT
LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	PERCENT RECOVERY	ACCEPTANCE LIMITS
--------------	---------------	---------------------	----------------------

BATCH: 34916 SAMPLE ID: Lab Control Sample

LSG SAMPLE NO: H0256681

OVTW TCL - Volatiles in Water			
1,1-Dichloroethene		104	-
Benzene		118	-
Chlorobenzene		121	-
Toluene		108	-
Trichloroethene		115	-

QUALITY CONTROL REPORT
METHOD BLANK DATA

TEST CODE	Determination	RESULT	UNITS
BATCH: 34916 SAMPLE ID: Method Blank LSG SAMPLE NO: H0256682			
OVTW	TCL - Volatiles in Water		
	1,1,1-Trichloroethane	< 5	ug/L
	1,1,2,2-Tetrachloroethane	< 5	ug/L
	1,1,2-Trichloroethane	< 5	ug/L
	1,1-Dichloroethane	< 5	ug/L
	1,1-Dichloroethene	< 5	ug/L
	1,2-Dichloroethane	< 5	ug/L
	1,2-Dichloroethene (total)	< 5	ug/L
	1,2-Dichloropropane	< 5	ug/L
	2-Butanone	< 10	ug/L
	2-Hexanone	< 10	ug/L
	4-Methyl-2-pentanone	< 10	ug/L
	Acetone	< 10	ug/L
	Benzene	< 5	ug/L
	Bromodichloromethane	< 5	ug/L
	Bromoform	< 5	ug/L
	Bromomethane	< 10	ug/L
	Carbon disulfide	< 5	ug/L
	Carbon tetrachloride	< 5	ug/L
	Chlorobenzene	< 5	ug/L
	Chloroethane	< 10	ug/L
	Chloroform	< 5	ug/L
	Chloromethane	< 10	ug/L
	Dibromochloromethane	< 5	ug/L
	Ethylbenzene	< 5	ug/L
	Methylene chloride	< 5	ug/L
	Styrene	< 5	ug/L
	Tetrachloroethene	< 5	ug/L
	Toluene	< 5	ug/L
	Trichloroethene	< 5	ug/L
	Vinyl acetate	< 10	ug/L
	Vinyl chloride	< 10	ug/L
	Xylene(total)	< 5	ug/L
	cis-1,3-Dichloropropene	< 5	ug/L
	trans-1,3-Dichloropropene	< 5	ug/L

REPORT OF LABORATORY ANALYSIS

October 27, 1993
 Report No.: 00028199
 Section H Page 1

QUALITY CONTROL REPORT
 MATRIX SPIKE AND MATRIX SPIKE DUPLICATE DATA

ANLS BATCH: 34915

LSG SAMPLE NO: H0254552

<u>TEST</u>	<u>DETERMINATION</u>	<u>MS</u> <u>RESULT</u>	<u>MSD</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>MS PCT</u> <u>RECOVERY</u>	<u>MSD PCT</u> <u>RECOVERY</u>
OVTCW	1,1-Dichloroethene	49.6	52.4	ug/L	5.45	99	105
OVTCW	Benzene	48.5	49.7	ug/L	2.56	97	99
OVTCW	Chlorobenzene	47.5	52.8	ug/L	10.5	95	106
OVTCW	Toluene	46.0	49.7	ug/L	7.58	92	99
OVTCW	Trichloroethene	48.3	49.5	ug/L	2.46	97	99



contact: Susanna Richard for
Billing address (713) - 759-0999 (work)

128100

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client Transwestern - Station 9

Report To: Susanne Richard Brown & Caldwell

Pace Client No. _____

Address _____

Bill To: Transwestern

Pace Project Manager _____

Phone _____

P.O. # / Billing Reference _____

Pace Project No. _____

Project Name / No. Station 9

*Requested Due Date: _____

Sampled By (PRINT):

Susanne Richard 10/9/93

Sampler Signature Date Sampled

for S. Richard by Alan J. Fern

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST	REMARKS
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL		
						VOA 8240 Semi 8270	

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL	ANALYSES REQUEST	REMARKS
1	Ground water	1200	wtr	1st	20					X	X	
2	Ground water	1200	wtr	VOA	10	X					X	semi 8270 cannot run w/ preservative see Susanne for Diane Meyer 10-15-93
3												
4												
5												
6												
7												
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
					Alan J. Fern	R. Knick & Pace	10/15/93	9:30

Additional Comments

#H254783

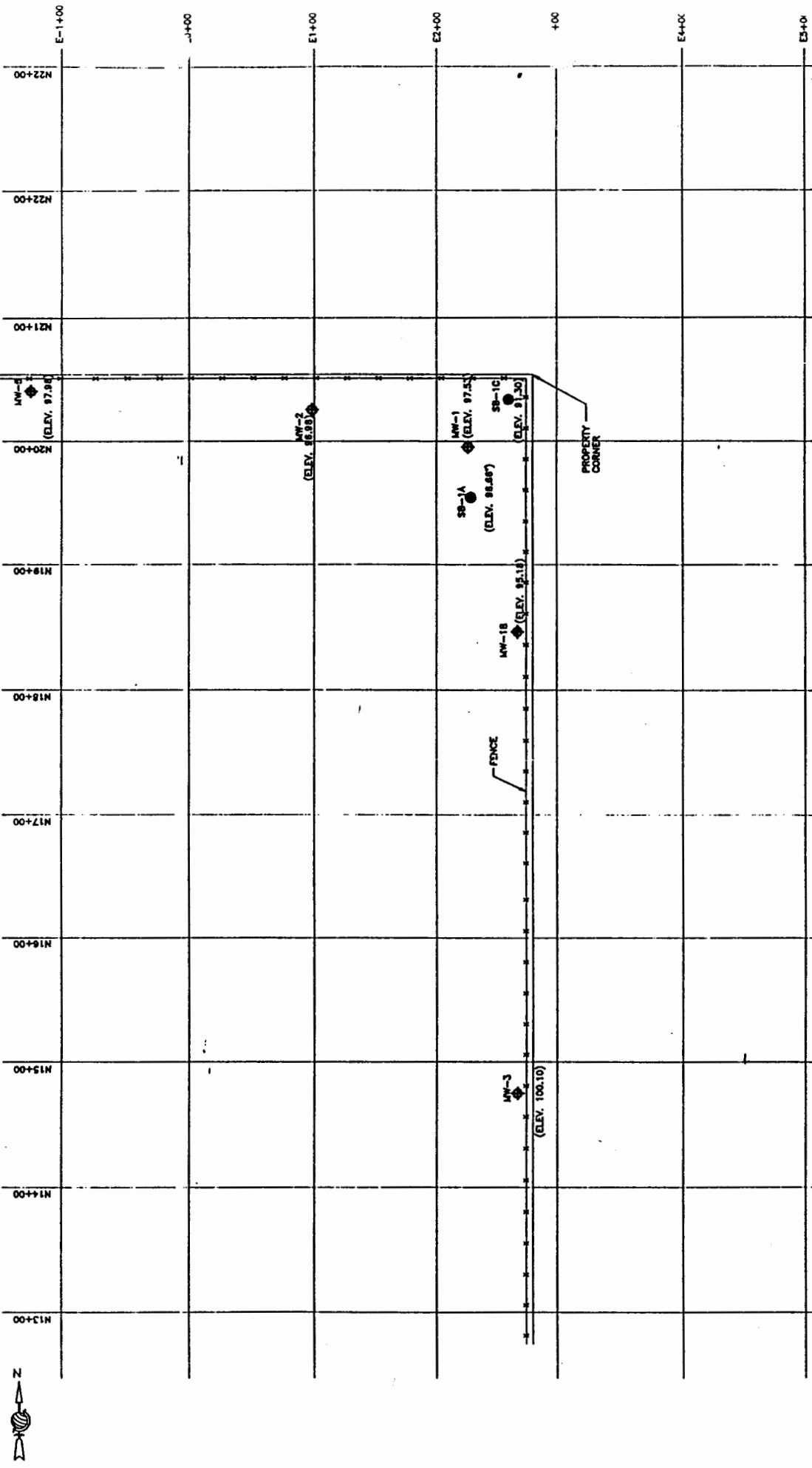


FIGURE 2-1

MONITOR WELL/BORING LOCATIONS
 ROSVELL COMPRESSOR
 STATION NO. 9
 TRANSESTERN PIPELINE COMPANY

SCALE: 1"=75'-0" | SHEET NO. 5172-BA | REV. 0

DRAWN BY	SL
DATE	6/23/93
ENGINEER	S. RICHARD
DATE	6/23/93
CAN. ENG. NO.	TRANS-276

Brown & Root Environmental
 A Halliburton Company

- LEGEND**
- - SOIL BORINGS
 - ◆ - MONITOR VELLS

