

## REPORTS

# DATE: 200/



### **BP Pipelines** (North America) Inc.

2001 Annual Report Artesia, New Mexico



#### **TABLE OF CONTENTS**

1. INTRODUCTION	
1.1 Site History	1
2.0 ACTIVITIES DURING THE PAST YEAR	
2.1 Fluid Level Gauging	
2.2 Groundwater Sampling	
3.0 RECOMMENDATIONS FOR SITE CLOSURE	
4.0 SUMMARY	

i

#### TABLE OF CONTENTS (cont.)

#### TABLE

Table 1.Monitoring Well Fluid Level Data

#### **FIGURES**

Figure 1.	Site Layout
Figure 2.	Depth to Water in MW-1
Figure 3.	Depth to Water in MW-2
Figure 4.	Depth to Water in MW-3
Figure 5.	Depth to Water in MW-4
Figure 6.	Depth to Water in MW-5
Figure 7.	Depth to Water in MW-6
Figure 8.	Depth to Water in MW-7
Figure 9.	Depth to Water in MW-8
Figure 10.	Depth to Water in MW-9
Figure 11.	Depth to Water in MW-10
Figure 12.	Depth to Water in MW-11
Figure 13.	Depth to Water in MW-12
Figure 14.	Depth to Water in MW-13
Figure 15.	Depth to Water in MW-14
Figure 16.	Measured Depth to Water Data, 8/18/98
Figure 17.	Measured Depth to Water Data, 12/5/98
Figure 18.	Measured Depth to Water Data, 4/1/99
Figure 19.	Measured Depth to Water Data, 6/3/99
Figure 20.	Measured Depth to Water Data, 9/20/99
Figure 21.	Measured Depth to Water Data, 1/8/00
Figure 22.	Measured Depth to Water Data, 6/8/00
Figure 23.	Measured Depth to Water Date, 7/24/01
Figure 24.	Measured FPH Thickness Data, 8/18/98
Figure 25.	Measured FPH Thickness Data, 12/5/98
Figure 26.	Measured FPH Thickness Data, 4/1/99
Figure 27.	Measured FPH Thickness Data, 6/3/99
Figure 28.	Measured FPH Thickness Data, 9/16/99
Figure 29.	Measured FPH Thickness Data, 1/8/00
Figure 30.	Measured FPH Thickness Data, 6/8/00
Figure 31.	Measured FPH Thickness Data, 7/24/01

#### APPENDICES

Appendix A. Historic Site DataAppendix B. Laboratory Analytical Results

#### 2001 SIXTH ANNUAL REPORT BP Pipelines (North America) Inc. Station Artesia, New Mexico

#### 1. INTRODUCTION

The objective of this Sixth Annual Report (Report) is to provide the State of New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division (OCD) information relative to activities and data collected at the subject site during the past 12 months (since June 2000). BASCOR Environmental, Inc. (BASCOR), on behalf of BP PipeLines (North America) Inc. (BP), has prepared this Report. Activities completed during the past year include the following:

(1) Gauging of fluid levels from site monitoring wells.

(2) Sampling of groundwater from selected monitoring wells in July 2001.

These activities are discussed in detail in subsequent sections of this Report.

#### 1.1 Site History

A release of free phase hydrocarbon (FPH) was discovered at a BP site located approximately 12 miles southeast of Artesia, New Mexico (Site). BP installed an interception trench and a groundwater separation/air stripper remediation system in November 1994 to control and remediate the FPH and dissolved hydrocarbon associated with the release. The system operated from that time until early 1997, when a request was made to and granted by the OCD to discontinue operation of the active remediation system due to lack of FPH and dissolved hydrocarbon in the monitoring wells in the vicinity of the remediation system at the site. The system was dismantled in the Fall of 1998.

Quarterly reporting had been submitted to the OCD throughout operation of the remediation system. Annual reports have also been submitted, with the most recent annual report being titled "Remediation System Operations Fifth Annual Report", dated

July 7, 2000. That annual report describes activities that had occurred at the site from June 1999 through June 2000. Included in the report were descriptions of the following activities:

- Monitoring of water levels in wells.
- Sampling Monitoring Wells MW-1, MW-5, MW-7, MW-9, MW-10, MW-11, MW-12, and MW-14 for BTEX.
- Recovery of FPH from Monitoring Well MW-2 utilizing a wind-powered recovery system, beginning in August 1999. The recovery system was subsequently shut down in May 2000 due to only a minimal amount of FPH remaining in the well.

As part of that report, BASCOR recommended that several monitoring wells with a history of extremely low BTEX concentrations be abandoned. Also, BASCOR recommended replacing Monitoring Wells MW-1 and MW-2 with similarly constructed wells about 5 feet from the existing wells. These new wells will provide a groundwater sample representative of the existing subsurface conditions, since the sand pack and well screens have no history of FPH saturation. It can be difficult to obtain accurate dissolved BTEX groundwater samples from wells that have contained FPH at some time in the recent past. The historic groundwater sampling data are included in Appendix A of this report. Site figures showing historic FPH thicknesses are also included in Appendix A.

#### 2.0 ACTIVITIES DURING THE PAST YEAR

#### 2.1 Fluid Level Gauging

During the period from June 2000 through July 2001, fluid levels from site monitoring wells were gauged once (July 2001). Results of the gauging are presented in Table 1. Historic graphs of the depth to water data versus time are included on Figures 2 through 15. The data indicates the depth to water in the site wells generally decreased during the reporting period, in many cases to the highest (shallowest) levels since BP began collecting data in 1993. This condition reflects the influence that precipitation had on the water table over the past couple of years. Consistent with previous reports, Figures 16 through 23 contain maps showing water level depth data from semi-annual events, including the event during the past year (July 2001).

The fluid level data indicate that 0.47 ft of FPH was measured in MW-2 during July 2001. Additionally, MW-3 is showing 0.10 ft of FPH. Wells that historically had measurable FPH thicknesses (MW-1, MW-2, and MW-3) had accumulations that slightly thicker than the previous measurement, but still well within the lower range of historical thicknesses. Overall, FPH thicknesses have decreased substantially since fluid level monitoring began following the FPH release incident. Figures 24 through 31 are maps indicating measured FPH thicknesses for the monitoring wells measured during semi-annual events, including the event during the past year.

#### 2.2 Groundwater Sampling

Consistent with previous site sampling strategy, groundwater samples were collected during July 2001 from Monitoring Wells MW-11 and MW-14 and submitted to a laboratory for BTEX analysis. Laboratory analytical results are included in Appendix B.

The results indicate that no BTEX constituents were detected in either well during the past year.

Semi-annual sampling of other monitoring wells that historically contained only minor FPH accumulations or no accumulations was also conducted during the reporting period. In addition to Monitoring Wells MW-11 and MW-14, Monitoring Wells MW-5, 7, 9, 10, and 12 were sampled and analyzed for BTEX. Some of these monitoring wells have historically contained minor FPH accumulations. Total dissolved BTEX data from those wells should accordingly be viewed as semi-quantitative, since groundwater samples collected from those wells may contain colloidal liquid FPH, thereby "contaminating" the groundwater sample. Laboratory analysis of water with colloidal suspensions of FPH will reflect the FPH in the water, even at extremely low colloidal levels, and not the true dissolved concentrations.

The total BTEX concentration for MW-5 was 0.630 mg/L. This data, while slightly elevated compared to the previous year's results, continues to indicate that the groundwater in the vicinity of MW-5 has only minimal impacts from the FPH release.

The total BTEX concentration for MW-7 was 0.002 mg/L (only total xylene was detected). This data also indicates that the groundwater in the vicinity of MW-7 has only minimal impacts from the FPH release.

The total BTEX concentration for MW-9 was 0.206 mg/L. Note that MW-9 is apparently upgradient from the BP tank battery, indicating that these data may be reflective of BTEX constituents migrating onto the BP lease site from upgradient locations. Also, MW-9 historically has had minor FPH accumulations, making any "dissolved" BTEX data suspect for reasons stated above.

The total BTEX concentration for MW-10 for the sampling period was 0.229 mg/L. These data indicate that the groundwater in the vicinity of MW-10 has only minimal impacts from the FPH release.

The groundwater sample from Monitoring Well MW-12 had <0.001 mg/L of dissolved BTEX (total xylene at 0.00028 mg/L). These data indicate that the groundwater in the vicinity of MW-12 has only minimal impacts from the FPH release.

#### 3.0 RECOMMENDATIONS FOR SITE CLOSURE

BASCOR met with Jack Ford of the New Mexico OCD on July 19, 2001 to review site closure status and discuss future activity. The discussion included a summary of the current status of FPH in Monitoring Wells #2 and #3. The minimal amounts of FPH measured in the recent sampling event likely resulted from residual hydrocarbon in the well bore being freed by fluctuating water levels, and is not an indication of additional hydrocarbon in the formation.

BASCOR recommended in the meeting the installation of two new monitoring wells in the vicinity of Monitoring wells #2 and #3. The new wells (MW-2A and MW-3A) will be installed within 15 to 25 feet of the existing wells (MW-2 and MW-3), which will be abandoned after the new wells are installed. Fluid levels and dissolved hydrocarbon samples from the new wells will help to accurately determine the extent of remaining hydrocarbon in the formation.

Installation of these two new wells is scheduled for September 2001. After installation, the wells will be developed and monitored for FPH and dissolved BTEX. The results of the monitoring will be used to determine whether selected site wells can be abandoned. The recommendations will be forwarded to the OCD upon completion of the evaluation.

The site closure status will move to the risk assessment phase, which will include riskbased modeling of the vicinity of the release site. The intent of the modeling will be to demonstrate that the site can be closed, based on acceptable risk to potential receptors of groundwater impacted by the release.

There is little to no FPH accumulations remaining in most of the monitoring wells at the site. Also, available data indicates the dissolved hydrocarbon plume has not spread. BASCOR notes that groundwater levels have generally risen across the site over the past couple of years. It is possible that this rise in water levels may be masking FPH accumulations in selected wells. However, our experience is that rising water levels can

cause dissolved BTEX concentrations to either increase or decrease. Continued monitoring and sampling of selected wells, as well as the new installations as mentioned above, should address this issue. As mentioned above, BP will submit a report with recommendations related to continued monitoring and well abandonment upon completion of the additional monitoring from the new wells.

#### 4.0 SUMMARY

BP has aggressively delineated and remediated the subsurface hydrocarbon that was released from the tank battery area in 1993. Fourteen (14) monitoring wells have been installed at and near the tank battery. A pump and treat recovery system with an interceptor trench were installed in 1996 and operated for several months. This system was effective in preventing the spread of hydrocarbons further downgradient, as evidenced by groundwater BTEX data collected from downgradient monitoring wells. In addition to the pump and treat system, FPH from a monitoring well near the source was removed, by regular hand bailing initially and by a wind-powered recovery system. Recent fluid level data indicates those recovery efforts were effective in substantially reducing the FPH accumulation in the subsurface.

Area-wide groundwater BTEX concentrations continue to be stable, with only minor fluctuations, indicating the source of those constituents has been greatly reduced. BP proposes to install two replacement wells in the area where the release occurred to demonstrate that there is sufficient data to initiate closure of the site. BP will utilize site information in a risk-based model to demonstrate there is minimal risk to human health and the environment.



## TABLE 1Monitoring Well Fluid Level DataBPAmoco Pipeline CompanyArtesia, New Mexico

i

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-1	5/21/93	20.52	20.73	0.21
	11/17/94	17.54	17.56	0.02
	2/9/95	18.02	18.05	0.03
	6/16/95	19.15	19.21	0.06
	10/2/95	skim	16.48	skim
	11/26/95	15.85	15.87	0.02
	4/16/96	14.32	14.33	0.01
	7/6/96	15.55	15.57	0.02
	9/30/96	11.70	11.75	0.05
	1/10/97	12.79	12.90	0.11
1	4/2/97	13.60	13.62	0.02
	7/10/97	14.78	14.79	0.01
	10/17/97	14.62	14.63	0.01
	1/18/98	none	13.74	0.00
	4/18/98	13.75	13.76	0.01
	5/29/98	none	14.56	0.00
	6/30/98	none	14.9	0.00
	7/23/98	none	15.71	0.00
	8/19/98	none	16.49	0.00
	12/5/98	none	17.94	0.00
	4/1/99	none	18.30	0.00
	6/3/99	none	17.65	0.00
	9/16/99	none	11.02	0.00
	1/8/00	none	10.18	0.00
	6/8/00	none	9 84	0.00
	7/24/01	9.88	9.90	0.02
		,	2120	0.02
MW-2	5/21/93	25.81	27.56	1.75
	11/17/94	23.28	26.67	3.39
	2/9/95	23.98	26.50	2.52
	6/16/95	25.63	26.45	0.82
	10/2/95	22.01	26.18	4.17
	11/26/95	21.23	26.17	4.94
	4/16/96	20.58	22.46	1.88
	7/6/96	21.86	25.18	3 32
	9/30/96	19.17	20.94	1 77
	1/10/97	20.20	22.98	2 78
	4/2/97	21.00	24.04	3.04
	7/10/97	22.41	23.50	1.09
	10/17/97	21.92	26.18	4.26
	1/18/98	20.03	24.00	3.97
	4/18/98	21.05	25 31	4.27
	5/20/08	21.04	25.51	4.18
	6/30/08	21.00	25.00	4.10
	7/22/08	22.00	20.2	7.20
	8/10/00	23.00	20.23	J.1/ 2.50
	0/17/70	23.00	20.10	2.30
	12/3/98	24.90	20.70	1.80
	4/1/99	23.13	20.47	1.52

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-2	6/1/99	23.10	26.20	3.10
	9/16/99	none	18.28	0.00
	1/8/00	18.65	19.23	0.58
	6/7/00	19.28	19.31	0.03
	7/24/01	17.03	17.50	0.47
MW-3	5/21/93	16.45	17.81	1.36
	11/17/94	13.07	13.65	0.58
	2/9/95	13.75	14.32	0.57
	6/16/95	15.20	15.84	0.64
	10/2/95	10.69	11.43	0.74
	11/26/95	9.69	10.41	0.72
	4/16/96	9.58	9.63	0.05
	7/6/96	11.70	11.80	0.10
	9/30/96	8.71	8.75	0.04
	1/10/97	10.33	10.40	0.07
	4/2/97	11.36	11.42	0.06
	7/10/97	13.02	13.10	0.08
	10/17/97	13.22	13.24	0.02
	1/18/98	10.68	10.78	0.10
	4/18/98	11.47	11.55	0.08
	5/29/98	12.34	12.45	0.11
	6/30/98	12.70	12.80	0.10
	7/23/98	13.95	14.02	0.07
	8/19/98	15.08	15.15	0.07
	12/5/98	16.4	16.5	0.10
	4/1/99	16.00	16.08	0.08
	6/3/99	14.35	14.38	0.03
	9/16/99	7.82	7.87	0.05
	1/8/00	8.50	8.60	0.10
	6/8/00	6.98	7.05	0.07
	7/24/01	6.63	6.73	0.10
MW-4	11/17/94	none	28.28	0.00
	2/9/95	none	28.51	0.00
1	6/16/95	none	29.58	0.00
	10/2/95	none	24.42	0.00
	11/26/95	none	22.61	0.00
	4/16/96	none	20.63	0.00
	7/6/96	none	26.44	0.00
	9/30/96	none	21.88	0.00
	1/10/97	none	25.24	0.00
	4/2/97	none	25.49	0.00
	4/18/98	none	25.02	0.00
1	12/5/98	29.52	29.70	0.18
	4/1/99	28.65	28.67	0.02
	6/3/99	none	26.48	0.00
	9/20/99	none	18.85	0.00
ļ	1/8/00	none	19.30	0.00

i.

÷

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-4	6/8/00	none	18.46	0.00
	7/24/01	none	16.93	0.00
	[			
MW-5	11/17/94	16.22	24.19	7.97
	2/9/95	16.84	24.85	8.01
İ	6/16/95	19.44	21.14	1.70
	10/2/95	16.19	17.85	1.66
	11/26/95	17.58	19.31	1.73
	4/16/96	17.04	17.25	0.21
	7/6/96	16.20	16.36	0.16
	9/30/96	11.17	11.38	0.21
	1/10/97	13.45	13.60	0.15
	4/2/97	14.19	14.35	0.16
	7/10/97	16.22	16.25	0.03
	10/17/97	13.37	13.39	0.02
	1/18/98	13.57	13.58	0.01
	4/18/98	14.04	14.05	0.01
	5/29/98	none	15.09	0.00
	6/30/98	none	15.42	0.00
	7/23/98	none	17.30	0.00
	8/19/98	18.09	18.10	0.01
	12/5/98	none	18.94	0.00
	4/1/99	none	19.48	0.00
	6/3/99	none	14.46	0.00
	9/20/99	none	9.91	0.00
	1/8/00	none	12.11	0.00
	6/8/00	none	12.13	0.00
	7/24/01	none	12.77	0.00
MW-6	11/17/94	trace	14.53	trace
	2/9/95	none	15.02	0.00
	6/16/95	16.24	16.27	0.03
Ì	10/2/95	none	13.55	0.00
	11/26/95	none	14.84	0.00
	4/16/96	none	13.80	0.00
	7/6/96	none	14.55	0.00
	9/30/96	none	9.62	0.00
	1/10/97	none	12.26	0.00
l l	4/2/97	none	12.03	0.00
	4/18/98	none	12.14	0.00
	12/5/98	none	15.95	0.00
	4/1/99	none	16.04	0.00
	6/3/99	none	13.6	0.00
	9/20/99	none	8.69	0.00
	1/8/00	none	10.73	0.00
	6/8/00	none	11.45	0.00

ł

ł

i

:

i

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-6	7/24/01	none	11.69	0.00
MW-7	11/17/94	none	34 33	0.00
101 00 - 7	2/9/95	none	34.67	0.00
	6/16/95	none	35.61	0.00
	10/2/95	none	33.79	0.00
	11/26/95	none	33.20	0.00
	4/16/96	none	30.95	0.00
	7/6/96	none	33 36	0.00
	9/30/96	none	29.15	0.00
	1/10/97	none	30.72	0.00
	4/2/97	none	31.85	0.00
	4/18/98	none	31.94	0.00
	12/5/98	none	35.24	0.00
	4/1/99	none	35.24	0.00
	6/3/99	none	33.32	0.00
	9/20/99	none	27.25	0.00
	1/8/00	none	27.95	0.00
	6/8/00	none	26.91	0.00
	7/24/01	none	25.65	0.00
MW-8	11/17/94	13.69	14.95	1.26
1.1.1.0	2/9/95	14.46	15.02	0.56
ł	6/16/95	15.50	16.41	0.91
	10/2/95	13.03	13.45	0.42
	11/26/95	14.16	14.71	0.55
	4/16/96	13.66	13.70	0.04
	7/6/96	13.05	13.07	0.02
	9/30/96	8.04	8.07	0.03
	1/10/97	9.89	9.90	0.01
	4/2/97	10.58	10.60	0.02
	7/.10/97	none	12.59	0.00
	10/17/97	none	10.20	0.00
	1/18/98	none	10.08	0.00
	4/18/98	none	10.52	0.00
	5/29/99	none	11.55	0.00
	6/30/98	none	11.87	0.00
	7/23/98	none	13.65	0.00
	8/19/98	none	14.42	0.00
}	12/5/98	none	15.30	0.00
1	4/1/99	none	15.73	0.00
	6/3/99	none	11.88	0.00
	9/20/99	none	7.20	0.00
	1/8/00	none	8.58	0.00
ł	6/8/00	none	9.71	0.00
	7/24/01	none	9.53	0.00
	<u> </u>	L		L

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-9	11/17/94	23.07	23.10	0.03
	2/9/95	trace	23.41	trace
	6/16/95	trace	24.65	trace
	10/2/95	skim	20.73	skim
	11/26/95	skim	19.52	skim
	4/16/96	17.53	17.54	0.01
	7/6/96	21.20	21.23	0.03
	9/30/96	16.00	16.02	0.02
	1/10/97	17.55	17.57	0.02
	4/2/97	18.91	18.92	0.01
	7/10/97	20.39	20.41	0.02
	10/17/97	20.13	20.15	0.02
	1/18/98	18.39	18.40	0.01
	4/18/98	18.80	18.81	0.01
	5/29/98	none	19.50	0.00
	6/30/98	none	19.82	0.00
	7/23/98	21.00	21.01	0.01
	8/19/98	none	21.75	0.00
	12/5/98	none	23.18	0.00
	4/1/99	none	22.85	0.00
	6/3/99	none	20.85	0.00
1	9/20/99	none	12.56	0.00
	1/8/00	none	12.64	0.00
	6/8/00	none	11.65	0.00
	7/24/01	none	10.65	0.00
MW-10	11/17/94	19.02	21.24	2.22
	2/9/95	19.74	22.36	2.62
	6/16/95	20.97	23.30	2.33
	10/2/95	18.49	19.55	1.06
	11/26/95	20.13	22.03	1.90
	4/16/96	20.26	20.88	0.62
	7/6/96	19.86	20.03	0.17
	9/30/96	none	15.62	0.00
	1/10/97	19.00	19.05	0.05
	4/2/97	19.35	19.40	0.05
	7/10/97	20.37	20.42	0.05
	10/17/97	none	16.58	0.00
	1/18/98	none	17.82	0.00
	4/18/98	none	18.27	0.00
	5/29/99	none	18.72	0.00
	6/30/98	none	19.04	0.00
	7/23/98	none	19.26	0.00
	8/19/98	none	19.40	0.00
1	12/5/98	none	19.69	0.00
	4/1/99	none	19.62	0.00
	6/3/99	none	17.10	0.00
	9/16/99	none	16.39	0.00
	1/8/00	none	17.75	0.00
	6/8/00	none	17.80	0.00

ł

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-10	7/24/01	none	17.44	0.00
MW-11	11/17/94	none	19.34	0.00
	2/9/95	none	19.61	0.00
	6/16/95	none	20.08	0.00
	10/2/95	none	19.74	0.00
	11/26/95	none	19.94	0.00
	4/16/96	none	19.68	0.00
ļ	7/6/96	none	19.75	0.00
	9/30/96	none	18.65	0.00
	1/10/97	none	19.92	0.00
	4/2/97	none	14.50	0.00
	1/18/98	none	18.91	0.00
1	4/18/98	none	19.07	0.00
	6/30/98	none	19.39	0.00
	8/19/98	none	19.54	0.00
	12/5/98	none	19.47	0.00
	4/1/99	none	19.44	0.00
	6/2/99	none	19.58	0.00
	9/16/99	none	18.20	0.00
	1/8/00	none	18.22	0.00
	6/7/00	none	18.55	0.00
	7/24/01	none	18.69	0.00
MW-12	11/17/94	none	16.47	0.00
	2/9/95	none	16.78	0.00
	6/16/95	none	17.28	0.00
	10/2/95	none	16.03	0.00
	11/26/95	none	16.63	0.00
	4/16/96	none	16.55	0.00
	7/6/96	none	16.45	0.00
	9/30/96	none	13.81	0.00
	1/10/97	none	18.92	0.00
	4/2/97	none	15.20	0.00
	4/18/98	none	14.91	0.00
	12/5/98	none	16.63	0.00
	4/1/99	none	16.87	0.00
	6/3/99	none	15.55	0.00
	9/16/99	none	13.59	0.00
	1/8/00	none	13.70	0.00
	6/7/00	none	14.35	0.00
1	7/24/01	none	13.66	0.00
1	1			1

i

Well No.	Date	Depth to	Depth to	FPH
		FPH, ft	Water, ft	Thickness, ft
MW-13	11/17/94	20.41	20.49	0.08
1	2/9/95	20.84	20.87	0.03
	6/16/95	21.35	21.40	0.05
	10/2/95	19.35	19.44	0.09
	11/26/95	21.53	21.58	0.05
	4/16/96	21.82	21.90	0.08
	7/6/96	21.00	21.05	0.05
	9/30/96	16.40	16.42	0.02
	1/10/97	19.17	19.19	0.02
	4/2/97	18.50	18.52	0.02
	7/10/97	none	19.00	0.00
	10/17/97	none	18.03	0.00
}	1/18/98	none	19.11	0.00
	4/18/98	none	19.60	0.00
	5/29/98	none	19.96	0.00
	6/30/98	none	20.28	0.00
	7/23/98	none	20.91	0.00
	8/19/98	none	21.25	0.00
	12/5/98	none	21.6	0.00
	4/1/99	none	21.81	0.00
	6/3/99	none	18.52	0.00
	9/16/99	none	13.59	0.00
	1/8/00	none	16.79	0.00
	6/7/00	none	17.81	0.00
	7/24/01	none	18.18	0.00
MW-14	11/17/94	none	18.11	0.00
	2/9/95	none	18.45	0.00
	6/16/95	none	18.93	0.00
	10/2/95	none	18.63	0.00
	11/26/95	none	18.83	0.00
	4/16/96	none	18.55	0.00
	7/6/96	none	18.58	0.00
	9/30/96	none	17.63	0.00
1	1/10/97	none	17.42	0.00
	4/2/97	none	17.82	0.00
	1/18/98	none	17.61	0.00
	4/18/98	none	17.77	0.00
	6/30/98	none	18.10	0.00
	8/19/98	none	18.23	0.00
	12/5/98	none	18.15	0.00
	4/1/99	none	18.27	0.00
-	6/2/99	none	18.25	0.00
	9/16/99	none	16.82	0.00
	1/8/00	none	16.75	0.00
1	6/7/00	none	17.07	0.00
	7/24/01	none	16.16	0.00

ł.

I.





















FIGURE 9

i



l





Î






FIGURE 15





































## TABLE BETX Results for Monitoring Wells with No Free Product

## Amoco Pipeline Company / Artesia, New Mexico

WELL4		3	and the second second				-	Conserved and the							
Sample Date:	11/25/94	12/22/94	02/16/95	06/16/95	10/02/95	11/25/95	04/17/96	07/05/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	<1	<1	<1	54.4	9.8	47	63	50	<1	<1	13	N/A	N/A	N/A	750
Ethylbenzene	<1	<1	<1	25	<1	13	<1.0	<1	<1	<1	<1	N/A	N/A	N/A	100
Toluene	1 <1	<1	<1	<1	<1	20	11	<1	<1	<1	<1	N/A	N/A	N/A	130
Xviene	<1	<1	<1	67	<1	3.8	36	20	<1	<1	<1	N/A	N/A	N/A	150
WEI136	-	A desire and the second	an in the second second		-Cutton Large			1 - Contraice						all a state	AN CAR
Sample Date:	11/25/94	12/21/94	02/16/95	06/16/95	10/02/05	41/26/05	04/16/96	07/06/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	FREE	FREE	22	FREE	31	5.8	<1	<1	<1	<1	<1	N/A	N/A	N/A	<1
Ethylbenzene	PRODUCT	PRODUCT	<	PRODUCT	<1	61	<1	<1	20	<1	<1	N/A	N/A	N/A	<1
Toluene	PRESENT	PRESENT	<1	PRESENT	<1	<u>c10</u>	<1	<1	<1	<1	<1	N/A	N/A	N/A	<1
Xvlene	Theolant	TREOLIT	c1	TRECENT	25	10	3.7	<	<1	<1	<1	N/A	N/A	N/A	<1
WFI1 74	-	a second second					and the second s	5305×52	1 - Book State	Same and	1	2000000000000	5-6-620		
Sample Date:	11/25/94	12/22/94	02/16/95	06/16/95	10/02/95	11/26/05	04/17/96	07/06/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	<1	1590	846	3100	880	3000	1900	1 800	170	160	<1	N/A	N/A	N/A	120
Ethylbenzene	<1	39	20.9	58.7	17	51	1 130	160	2	<1	<1	N/A	N/A	N/A	<1
Toluene	<1 <1	<10	<10	36	<10	46	<	<10	~ ~2	<1	<1	N/A	N/A	N/A	<1
Xvlene	<1	86.5	52.7	140	35	200	100	120	11	3.2	<1	N/A	N/A	N/A	7.7
WELLS WELLS AND															a la contra de la
Sample Date:	11/17/94	12/22/94	02/16/95	06/16/95	10/02/95	11/26/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,800
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	480
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	820
Xvlene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,100
WELL 10				STATE NO.	1.00000000										
Sample Date:	11/17/94	12/22/94	02/16/95	06/14/95	10/02/95	11/25/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	62	N/A	N/A	N/A	N/A	N/A	91
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	N/A	N/A	N/A	N/A	N/A	<1
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	<1
Xylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	N/A	N/A	N/A	N/A	N/A	20
WELL 11	6.688.5860	Contraction of the		245 (250-2502)				A CARACITA		Service Service		1	and the second		
Sample Date:	11/17/94	12/22/94	02/16/95	06/14/95	10/02/95	11/25/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	2.1	1.1	<1	<1	1.5	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	5.3	2.8	<1	<1	1.2	<1	<1	<1	<1	<1
Xylene	<1	<1	<1	<1	<1	6.1	3.7	<1	<1	6	<1	<1	<1	<1	<1
WELL 12	222.923		Sec. A. C. Sur	A								2. S. 1 . S. 1			
Sample Date:	11/17/94	12/22/94	02/16/95	06/16/95	10/02/95	11/26/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	75	5.6	<1	<1	<1	1.1	1.5	4.1	30	2.3	<1	N/A	N/A	N/A	3.9
Ethylbenzene	1	<1	<1	<1	<1	<1.0	1.8	<1	<1	<1	<1	N/A	N/A	N/A	<1
Toluene	1.1	<1	<1	<1	<1	3.5	5.1	<1	<1	<1	<1	N/A	N/A	N/A	<1
Xylene	1	<1	<1	<1	<1	5.1	5.8	1.2	<1	<1	<1	N/A	N/A	N/A	<1
WELL 13	632 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	6. M. C.	2.2.	the Burn			1375 F.		5. 1 - S. C.						
Sample Date:	11/17/94	12/22/94	02/16/95	06/16/95	10/02/95	11/26/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>N/A</u>	N/A	N/A	<1
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.1
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<u>N/A</u>	N/A	N/A	<1
Xylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13
WELL 14		STALLOG !!		11. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	General and		19-38-37-1	t post				<u>ASPENSE</u>			
Sample Date:	11/17/94	12/22/94	02/16/95	06/16/95	10/02/95	11/26/95	04/16/96	07/02/96	09/30/96	01/10/97	04/02/97	07/10/97	09/14/97	01/18/98	04/18/98
Benzene	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	3.6	1.7	<1	<1	<1	<1	<1	<1	<1	<1

NOTES:

All results are in ug/L. N/A = Not Applicable

----

: مت مر: ت




































# Test America

#### ANALYTICAL REPORT

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056 08/02/2001 Job No: 01.05624

Page 1 of 11

The following samples were received by TestAmerica for analysis:

Sample Number	Sample Description	Date Taken	Date Received
445774	MW-5 BP Artesian Station	07/24/2001	07/26/2001
445775	MW-7 BP Artesian Station	07/24/2001	07/26/2001
445776	MW-9 BP Artesian Station	07/24/2001	07/26/2001
445777	MW-10 BP Artesian Station	07/24/2001	07/26/2001
445778	MW-11 BP Artesian Station	07/24/2001	07/26/2001
445779	MW-12 BP Artesian Station	07/24/2001	07/26/2001
445780	MW-14 BP Artesian Station	07/24/2001	07/26/2001
445781	Trip Blank BP Artesian Station	07/24/2001	07/26/2001

Brian D. DeJong Organic Operations Manager

602 Commerce Drive / Watertown, WI 53094 / 920-261-1660 / Fax: 920-261-8120 WDNR No. 128053530 BASCOR ENVIRONMENTAL, INC. Job No: 01.05624

08/02/2001 Page 2 of 11

#### **KEY TO DATA FLAGS**

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

**Test**America

- A = Analyzed/extracted past hold time
- B = Blank is contaminated
- C = Standard outside of control limits
- $D \approx$  Diluted for analysis
- E = TCLP extraction outside of method required temperature range
- F = Sample filtered in lab
- G = Received past hold time
- H = Late eluting hydrocarbons present
- I = Improperly handled sample
- J = Estimated concentration
- $L \approx$  Common lab solvent and contaminant
- $M \approx Matrix interference$
- P = Improperly preserved sample
- Q = Result confirmed via re-analysis
- S = Sediment present
- T = Does not match typical pattern
- W = BOD re-set due to missed dilution
- X = Unidentified compound(s) present
- Z = Internal standard outside limits
- \* = See Case Narrative

#### **KEY TO ANALYST INITIALS**

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that WDNR certification is not required for the work performed):

Lap	
Code	Certification Number
008	WDNR - 99976690B
009	WDNR - 241293690
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; MDH - 019-999-319; WDNR - 999917270
130	WDNR - 632021390
147	WDNR - 721026460
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
700	WDNR - 113289110

## Test/America

#### ANALYTICAL REPORT

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

08/02/2001 Job No: 01.05624 Sample No: 445774 Account No: 3000 Page 3 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: MW-5 BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 13:20 Date Received: 07/26/2001

11

Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
400	ug/L	0.13	0.44	SW 8020	07/31/200	ı jsm	7539
60	ug/L	0.22	0.70	SW 8020	07/31/200	l jsm	7539
9.7	ug/L	0.20	0.64	SW 8020	07/31/200	l jsm	7539
160	ug/L	0.23	0.82	SW 8020	07/31/200	l jsm	7539
89.5	8		80-	SW 8020	07/31/200	l jsm	7539
	Results 400 60 9.7 160 89.5	Results Units   400 ug/L   60 ug/L   9.7 ug/L   160 ug/L   89.5 %	Results Units MDL   400 ug/L 0.13   60 ug/L 0.22   9.7 ug/L 0.20   160 ug/L 0.23   89.5 %	ResultsUnitsMDLLOQ400ug/L0.130.4460ug/L0.220.709.7ug/L0.200.64160ug/L0.230.8289.5%80-	Results   Units   MDL   LOQ   Method     400   ug/L   0.13   0.44   SW 8020     60   ug/L   0.22   0.70   SW 8020     9.7   ug/L   0.20   0.64   SW 8020     160   ug/L   0.23   0.82   SW 8020     89.5   %   80-   SW 8020	Date   Date     Results   Units   MDL   LOQ   Method   Analyzed     400   ug/L   0.13   0.44   SW 8020   07/31/2003     60   ug/L   0.22   0.70   SW 8020   07/31/2003     9.7   ug/L   0.20   0.64   SW 8020   07/31/2003     160   ug/L   0.23   0.82   SW 8020   07/31/2003     89.5   %   80-   SW 8020   07/31/2003	Date     Results   Units   MDL   LOQ   Method   Analyzed   Analyst     400   ug/L   0.13   0.44   SW 8020   07/31/2001   jsm     60   ug/L   0.22   0.70   SW 8020   07/31/2001   jsm     9.7   ug/L   0.20   0.64   SW 8020   07/31/2001   jsm     160   ug/L   0.23   0.82   SW 8020   07/31/2001   jsm     89.5   %   80-   SW 8020   07/31/2001   jsm

**Test**America

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

08/02/2001 Job No: 01.05624 Sample No: 445775 Account No: 3000 Page 4 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis MW-7 BP Artesian Station Rec'd at 2.7 degrees C SAMPLE DESCRIPTION:

Date/Time Taken: 07/24/2001 15:06 Date Received: 07/26/2001

Date

Bron / Bun

ıtch
7547
7547
7547
7547
7547



Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056 08/02/2001 Job No: 01.05624 Sample No: 445776 Account No: 3000 Page 5 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: MW-9 BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 08:36

Date Received: 07/26/2001

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
PVOC - AQUEOUS								
Benzene	36	ug/L	0.13	0.44	SW 8020	07/31/200:	l jsm	7539
Ethylbenzene	20	ug/L	0.22	0.70	SW 8020	07/31/200	l jsm	7539
Toluene	<4.0	ug/L	0.20	0.64	SW 8020	07/31/2003	L jsm	7539
Xylenes, Total	150	ug/L	0.23	0.82	SW 8020	07/31/200	L jsm	7539
Surr: Bromofluorobenzene	85.5	¥		80-	SW 8020	07/31/2003	L jsm	7539

1

### **Test**America

#### ANALYTICAL REPORT

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

l ì

08/02/2001 Job No: 01.05624 Sample No: 445777 Account No: 3000 Page 6 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: MW-10 BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 12:31 Date Received: 07/26/2001

Parameter	Results	Units	MDL	LOQ	Method	Analyzed	Analyst	Prep/Run Batch
PVOC - AQUEOUS								
Benzene	180	ug/L	0.13	0.44	SW 8020	07/31/2001	. jsm	7539
Ethylbenzene	8.6	ug/L	0.22	0.70	SW 8020	07/31/2001	. jsm	7539
Toluene	<4.0	ug/L	0.20	0.64	SW 8020	07/31/2001	jsm	7539
Xylenes, Total	40	ug/L	0.23	0.82	SW 8020	07/31/2001	. jsm	7539
Surr: Bromofluorobenzene	93.0	Ŷ		80-	SW 8020	07/31/2001	jsm	7539

. 1



Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056 08/02/2001 Job No: 01.05624 Sample No: 445778 Account No: 3000 Page 7 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: MW-11 BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 09:55

Date Received: 07/26/2001

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
PVOC - AQUEOUS								
Benzene	<0.13	ug/L	0.13	0.44	SW 8020	07/31/2001	. jsm	7539
Ethylbenzene	<0.22	ug/L	0.22	0.70	SW 8020	07/31/2001	. jsm	7539
Toluene	<0.20	ug/L	0.20	0.64	SW 8020	07/31/2001	. jsm	7539
Xylenes, Total	<0.23	ug/L	0.23	0.82	SW 8020	07/31/2001	. jsm	7539
Surr: Bromofluorobenzene	98.5	8		80-	SW 8020	07/31/2001	. jsm	7539



Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

08/02/2001 Job No: 01.05624 Sample No: 445779 Account No: 3000 Page 8 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis MW-12 BP Artesian Station Rec'd at 2.7 degrees C SAMPLE DESCRIPTION:

Date/Time Taken: 07/24/2001 11:51 Date Received: 07/26/2001

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
PVOC - AQUEOUS								
Benzene	<0.13	ug/L	0.13	0.44	SW 8020	08/01/2001	jsm	7547
Ethylbenzene	<0.22	ug/L	0.22	0.70	SW 8020	08/01/2001	jsm	7547
Toluene	<0.20	ug/L	0.20	0.64	SW 8020	08/01/2001	jsm	7547
Xylenes, Total	0.28	ug/L	0.23	0.82	SW 8020	08/01/2001	jsm	7547
Surr: Bromofluorobenzene	91.5	010		80-	SW 8020	08/01/2001	jsm	7547

i i

## Test/America

#### **ANALYTICAL REPORT**

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

08/02/2001 Job No: 01.05624 Sample No: 445780 Account No: 3000 Page 9 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: MW-14 BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 11:03 Date Received: 07/26/2001

							Date		Prep/Run
	Parameter	Results	Units	MDL	LOQ	Method	Analyzed	Analyst	Batch
PVOC - AQUE	OUS								
Benzene		<0.13	ug/L	0.13	0.44	SW 8020	07/31/200	l jsm	7539
Ethylbenzen	e	<0.22	ug/L	0.22	0.70	SW 8020	07/31/200	1 jsm	7539
Toluene		<0.20	ug/L	0.20	0.64	SW 8020	07/31/200	l jsm	7539
Xylenes, To	tal	<0.23	ug/L	0.23	0.82	SW 8020	07/31/200	1 jsm	7539
Surr: Brom	ofluorobenzene	99.0	*		80-	SW 8020	07/31/200	l jsm	7539

**Test**America

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056 08/02/2001 Job No: 01.05624 Sample No: 445781 Account No: 3000 Page 10 of 11

JOB DESCRIPTION: BP Artesian Station-New Mexico PROJECT DESCRIPTION: Groundwater Analysis SAMPLE DESCRIPTION: Trip Blank BP Artesian Station Rec'd at 2.7 degrees C

Date/Time Taken: 07/24/2001 UNKNOWN

Date Received: 07/26/2001

Parameter		Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
PVOC - AQUEOUS									
Benzene		<0.13	ug/L	0.13	0.44	SW 8020	07/31/2001	l jsm	7539
Ethylbenzene		<0.22	ug/L	0.22	0.70	SW 8020	07/31/2003	L jsm	7539
Toluene	Q	0.26	ug/L	0.20	0.64	SW 8020	07/31/2001	L jsm	7539
Xylenes, Total		<0.23	ug/L	0.23	0.82	SW 8020	07/31/2001	L jsm	7539
Surr: Bromofluorobenzene		98.5	ato .		80-	SW 8020	07/31/2001	l jsm	7539

## Test/America

INCORPORATE

### QUALITY CONTROL REPORT

#### BLANKS

08/02/2001

Mr. Sam Senn BASCOR ENVIRONMENTAL, INC. 800 W. Central Road Suite 104N Mt. Prospect, IL 60056

Job No: 01.05624 Account No: 3000

Page 11 of 11

Job Description: BP Artesian Station-New Mexico

Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
	7539	<0.13	0.13	0.44	ug/L
	7539	<0.22	0.22	0.70	ug/L
	7539	<0.20	0.20	0.64	ug/L
	7539	<0.23	0.23	0.82	ug/L
	7539	94.0		80-	8
	7547	<0.13	0.13	0.44	ug/L
	7547	<0.22	0.22	0.70	ug/L
	7547	<0.20	0.20	0.64	ug/L
	7547	<0.23	0.23	0.82	ug/L
	7547	93.0		80-	8
	Prep Batch	Prep Run Batch Batch 7539 7539 7539 7539 7539 7539 7539 7547 7547 7547 7547 7547	Prep     Run     Blank       Batch     Batch     Result       7539     <0.13	Prep Batch     Run Batch     Blank Result     MDL       7539     <0.13	Prep Batch     Run Batch     Blank Result     MDL     LOQ       7539     <0.13

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

0.0962	the proper analytical methods, inducted for regulatory purposes? Monitoring	- ZP Autesia, Station	BPANTESTA State: NEW MCXILO	39M Sand Basiev ENVIrannen	Col		AC Deliverables None	(Batch QC) (Batch QC) Level 3	Level 4											ORATORY COMMENTS: Init Lab Temp.	JOY Seals: Y N /VA	es Supplied by TestAmerica	od of Shipment:	
	To assist us in using is this work being o Compliance	Project Name: BASCO	Site/Location ID: Dascor	Report To: M.	Invoice To: 2545 Quote #:	Analyze For:														in Sem	: Cus	Bott Time:	W/1/ Juner 15 Meth	127/2710)
	-1660 8120 8120	nt# ON File CT. Suite 1040	3 ( 20	7-577-1982	-196-	ontainers	1927		(Specify)	Vone Vone	X	X	Ń	X	X	X	X			plance Call 1980	Date	) / Date	the de	ł
	1 Phone: 920-261. ve Fax: 920-261. 94 Feder 1.430	tral gog d	1 + C - W	: 80 Fax 84	mhill, CG	atrix Preservation & # of C	ionic Soliy Other Soliy Solid	1/7 eds .	101 JaiewaiseW JaiewaiseW	₩еџузц H <sup>3</sup> 2O <sup>4</sup> ИЗОН HCI HCI HNO <sup>3</sup> GM - C	$\mathbb{N}$	5 W X 1	- w X	su X	sk X	Fur X	X	X		Ruestrans	CORECEIVED BY:	Received By:	Received Street	
	ttertown Divisior 2 Commerce Driv ttertown, WI 530	ENVITAN 1057 Cen	Sam Ser	577-19	Clerton	M	osite king Water	dmo:	udge DW	9 = 9	ind GW 6	106 6 N 6	2600	BEN C	STENC	5/6 N 0	123610			con (B	25/0/ Time /5	e: Time:	e: Time:	
	ica sec	s Boo h		1. <i>1847 -</i>	e) (//3.07	)			pakimes	Sete C	2/ 10/14/2	7/24/0/15	Histor 8.	Hive in	7/24/0 9.	7/2/10/ 11/2	7/24/11			you hav	Sould Ba	Dat	Dat	1
	TestAmer	Client Narr Addres:	Project Manage	Telephone Numbe	Sampler Name: (Print Nam Sampler Signatur		TAT Standard Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	SAMPLE ID	MW-5	11/10-7	MW-9	DI-MW	MW-11	EI-MM	MW-14	TKIP Blank	Temper Blank	Special Instructions: T.P.	Relinquished BY.	Relinquished By:	Relinquished By:	

į