3R - 405

REPORTS

DATE:

Aug. 31, 2006

3R0405

BLAGG ENGINEERING INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

September 20, 2006

2006 SEP 25 PM 1 19

Mr. Glenn von Gonten, Hydrologist
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: BP America Production Company
Transmittal of Remediation and Monitoring Report
Chavez GC A 1
(G) Sec. 3 – T29N – R9W, San Juan County, NM

Dear Mr. von Gonten:

On behalf of BP America Production Company, Blagg Engineering, Inc. (BEI) is submitting the attached remediation and monitoring report for the Chavez GC A 1 pursuant to the site groundwater management plan.

If you have questions or need additional information, please contact either myself at (505)632-1199 or Mr. Kevin Hansford of BP at (505)326-9200.

Respectfully:
Blagg Engineering, Inc.

Jeffrey C. Blagg

Jeffrey C. Blagg, P.E.
President

cc: Brandon Powell - NMOCD Aztec
Kevin Hansford - BP SJ Op. Ctr.
Steve Chavez – Fee Surface Owner

File: rpt.xmt.wpd

3R0405

REMEDIATION AND MONITORING REPORT

BP AMERICA PRODUCTION CO.
CHAVEZ GC A #1

(G) SEC. 3 – T29N – R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR:
NEW MEXICO OIL CONSERVATION DIVISION
1220 ST. FRANCIS DRIVE
SANTA FE, NEW MEXICO 87504

PREPARED BY:
BLAGG ENGINEERING, INC.
CONSULTING ENGINEERS
P.O. BOX 87
BLOOMFIELD, NM 87413
(505)632-1199

AUGUST 31, 2006

Table of Contents

List of Figures:

List of Tables:

List of Attachments:

REMEDIATION AND MONITORING REPORT
BP AMERICA PRODUCTION CO
CHAVEZ GC A #1

Introduction and Executive Summary

The Chavez GC A #1 well is located on fee surface in rural San Juan County, New Mexico. During site equipment modifications on February 13, 2006 groundwater with potential hydrocarbon impacts was encountered at a depth of approximately 9 feet below surface grade. Removal of hydrocarbon contaminated soils began immediately and approximately 14,000 ± cubic yards of soil was removed to mitigate potential groundwater contamination (Figure 1). The area was backfilled with clean imported soil.

Following abatement of soil impacts, four (4) groundwater monitor wells were installed to monitor water quality. Test results indicate that limited residual groundwater impacts are present at the site, but did not extend immediately down-gradient from the remedial excavation. Based on this data quarterly well sampling is indicated pursuant to the groundwater management plan.

During remedial activities other potential impact sources were investigated using a backhoe. These investigations were at specific spots suggested by the fee landowner who had extensive historical knowledge of the well, initially drilled in 1951. Soil impacts extending to the water table interface were found in the area immediately west of the well head. Due to the onset of flood irrigation activities directly adjacent to this area it was determined to postponed excavation of these impacts until late fall of 2006 when the water table is expected to recede, thus improving access to soil impacts within the vadose zone above the groundwater interface.

Abatement of Soil Impacts

The Chavez GC A #1 is immediately adjacent to agricultural land planted with alfalfa and other crops. The ground surface is relatively flat with a minor down slope towards the north-north west, with the San Juan River at approximately ¼ mile away in this direction. An unlined irrigation ditch flowing towards the southwest runs through the well location.

Site investigation and abatement was conducted concurrently between February 13 – May 26, 2006 using excavation equipment to remove all apparent impacted soils to the water table interface, beginning from the ground surface and extending to below the water table (see appendix: Pit Closure Field Report). The soil at the site is primarily a dark brown, cohesive silty clayey sand, with

hydrocarbon impacted soils stained light gray to dark gray. Groundwater was found at a depth of 9 ± feet below the ground surface. The impacted soils were transported to the NMOCD permitted BP Crouch Mesa Landfarm for remediation.

During excavations, soil samples were collected from above the water table interface for laboratory testing of total petroleum hydrocarbons (Method 8015B), volatile organics (Method 8021B) and chloride (Method 9056A) to confirm closure standards were achieved at the excavation perimeter. Lab test reports are included in the appendices.

Monitor Well Installation and Water Quality Test Results

Four (4) groundwater monitoring wells were installed on July 31, 2006 for water quality testing and to determine gradient. A hollow stem auger drill rig was used to advance borings to depths ranging between 15 – 17 feet below surface grade and set 2-inch diameter slotted screen with filter pack and a bentonite seal (Figures 3 – 6).

Following development, the wells were sampled on August 12, 2006 for testing of volatile organics by U.S. EPA Method 8021B (BTEX) and for cation/anion balance. Samples were placed in laboratory supplied containers, stored in an ice chest with ice and express delivered to the laboratory for testing. BTEX samples were tested by Hall Environmental Labs in Albuquerque and the cation/anion samples were tested by Envirotech Labs in Farmington. Analytical results indicate that west side perimeter monitor well MW #3 has benzene impacts (22 ug/L) that exceed New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. The other monitor wells tested contaminates at below NMWQCC standards. The laboratory data is summarized in Table 1 and laboratory test reports are included in the appendices.

Review of cation/anion balance test results indicates the up-gradient well MW #1 and source area well MW #2 have higher total dissolved solids than side-gradient well MW #3 and down-gradient well MW #4. The proximity of the irrigation ditch to wells MW #3 and #4, likely contributing to fresh water infiltration to the water table, may account for this. The test results are summarized in Table 2. Laboratory reports are included in the appendices.

The measured groundwater depth during the August 12, 2006 sample event indicates a water table type aquifer with a north gradient at a relatively flat slope of approximately 0.0014 feet/foot (Figure 2). Future measurements could indicate seasonal shifts in groundwater flow direction and additional gradient measurements are suggested prior to determining locations for any supplementary monitoring points.

Recommendations for Further Action

Additional abatement of soil impacts is necessary in the area immediately west of the well head. Due to the presently ongoing irrigation season resulting in a high water table, removal of contaminated soils in this area is scheduled to commence in late fall of 2006 following the termination of crop irrigation activities.

Initial monitoring of groundwater impacts indicates that hydrocarbon contamination in excess of NMWQCC standards is present at the site. These impacts appear to be minimal and limited to one well (MW #3) at the western extent of remedial activities. BEI recommends quarterly monitoring of water quality to quantify natural degradation and to identify shifts in groundwater flow patterns. Additional groundwater monitoring points will be necessary following removal of remaining impacted soils, as described above. These points should be placed both within and down-gradient of this source area to monitor water quality.

Limitations and Closure

The scope of BEI's services has been limited to site sampling and reporting. Work has been performed in accordance with generally accepted practices in environmental engineering and hydrogeology.

This report has been prepared for the exclusive use of BP America Production Company as it pertains to the Chavez GC A #1 well, located in the SW/4 of the NE/4 of Section 3, Township 29N, Range 9W, NMPM, San Juan County, New Mexico.

I certify that I am personally familiar with the investigative work at the site, site conditions and information as reported in this document.

Respectively Submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg

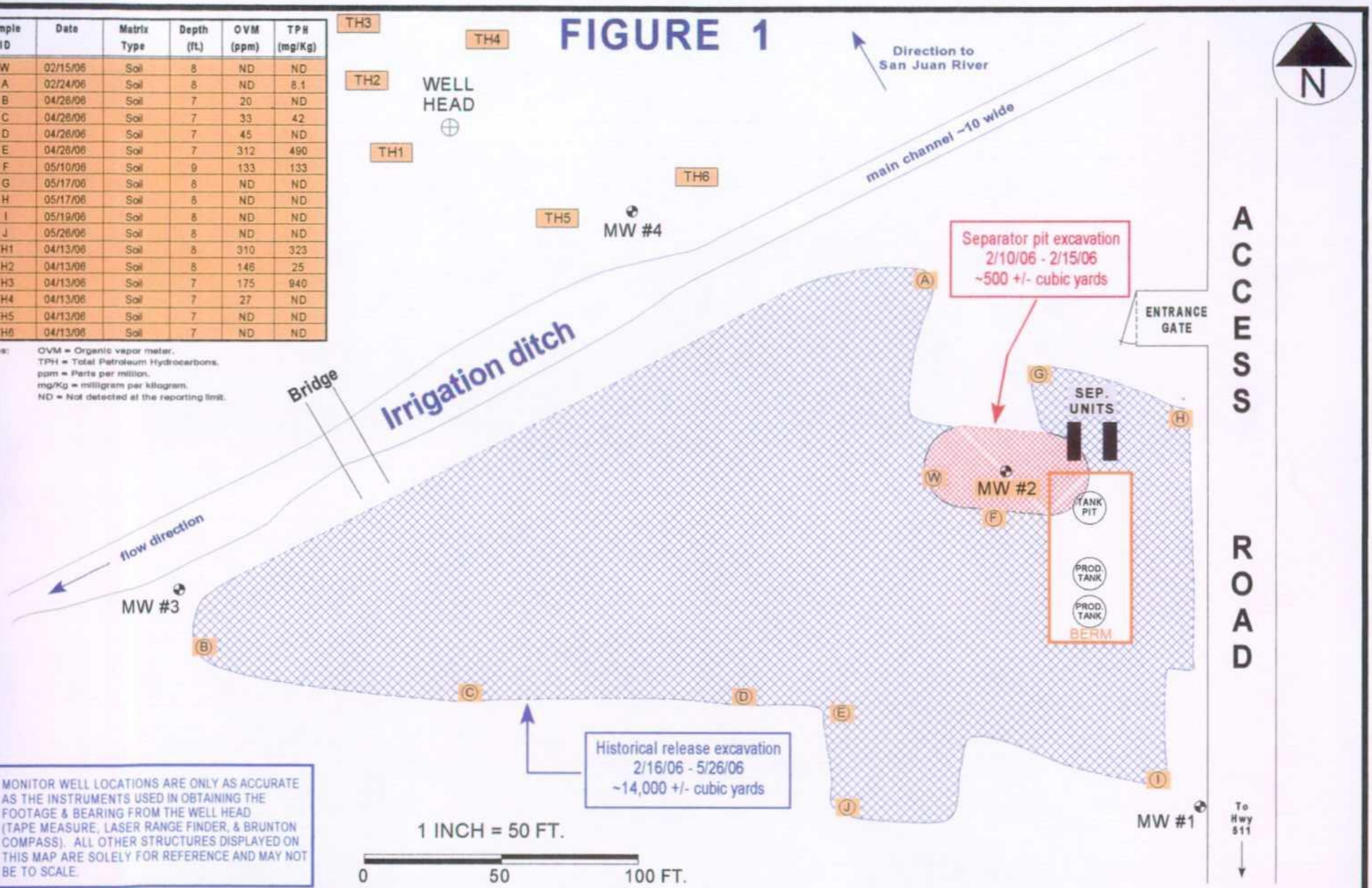
Jeffrey C. Blagg, NMPE 11607
President

FIGURES

FIGURE 1

Sample ID	Date	Matrix Type	Depth (ft.)	OVM (ppm)	TPH (mg/Kg)
W	02/15/06	Soil	8	ND	ND
A	02/24/06	Soil	8	ND	8.1
B	04/26/06	Soil	7	20	ND
C	04/26/06	Soil	7	33	42
D	04/26/06	Soil	7	45	ND
E	04/26/06	Soil	7	312	490
F	05/10/06	Soil	9	133	133
G	05/17/06	Soil	8	ND	ND
H	05/17/06	Soil	8	ND	ND
I	05/19/06	Soil	8	ND	ND
J	05/26/06	Soil	8	ND	ND
TH1	04/13/06	Soil	8	310	323
TH2	04/13/06	Soil	8	146	25
TH3	04/13/06	Soil	7	175	940
TH4	04/13/06	Soil	7	27	ND
TH5	04/13/06	Soil	7	ND	ND
TH6	04/13/06	Soil	7	ND	ND

Notes:
OVM = Organic vapor meter.
TPH = Total Petroleum Hydrocarbons.
ppm = Parts per million.
mg/Kg = milligram per kilogram.
ND = Not detected at the reporting limit.



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FT.

0 50 100 FT.

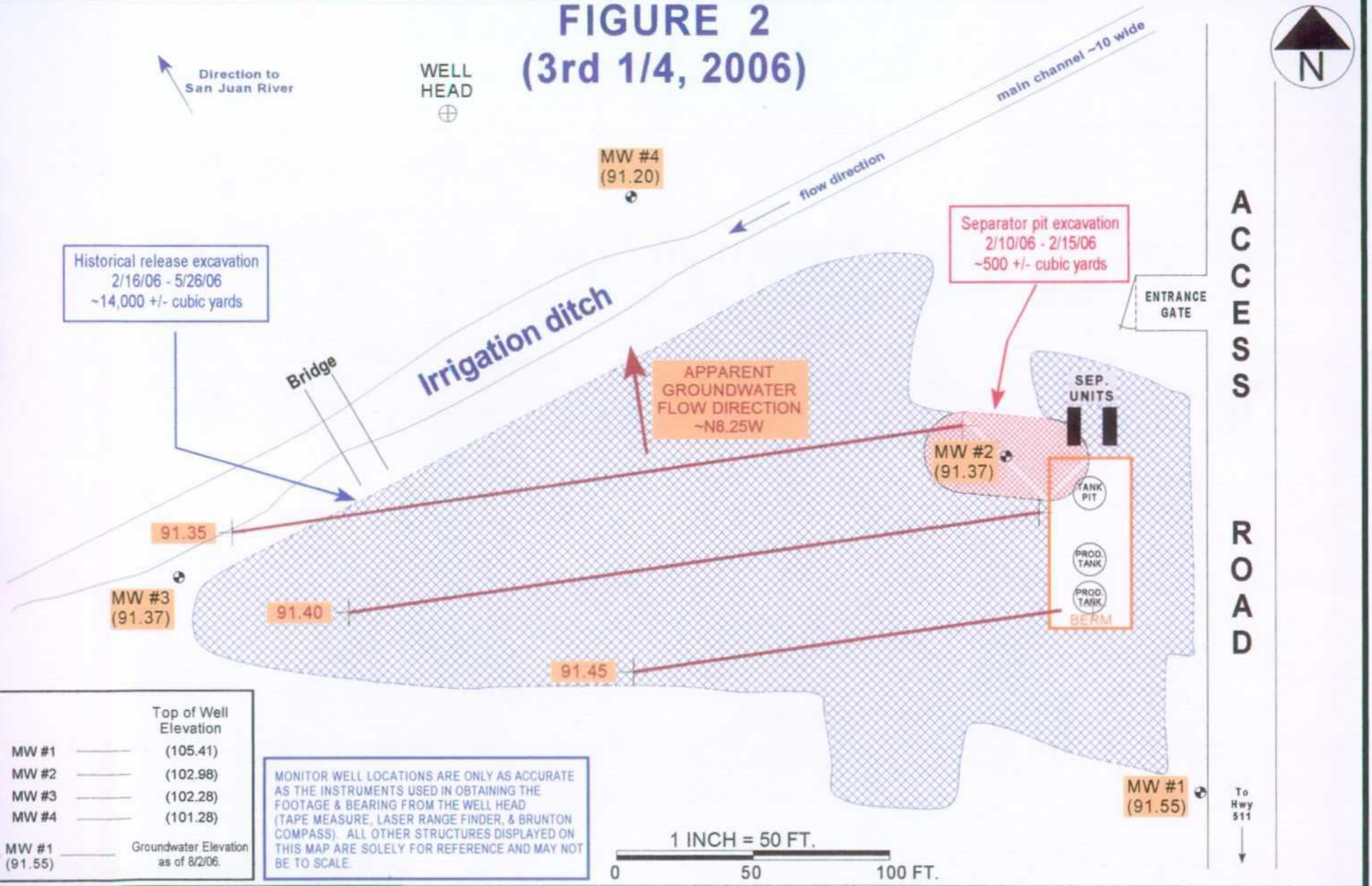
BP AMERICA PRODUCTION CO.
CHAVEZ GC A #1
SW/4 NE/4 SEC. 3, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW INSTALLATION
DRAWN BY: NJV
FILENAME: CHAVEZ GC A 1-SM2.SKF
REVISED: 08-18-06 NJV

SITE MAP
08/06

FIGURE 2
(3rd 1/4, 2006)



	Top of Well Elevation
MW #1	(105.41)
MW #2	(102.98)
MW #3	(102.28)
MW #4	(101.28)
MW #1 (91.55)	Groundwater Elevation as of 8/2/06.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION CO.
CHAVEZ GC A #1
SW/4 NE/4 SEC. 3, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 08-07-06-GW2.SKF
REVISED: 08-18-06 NJV

GROUNDWATER GRADIENT MAP
08/06

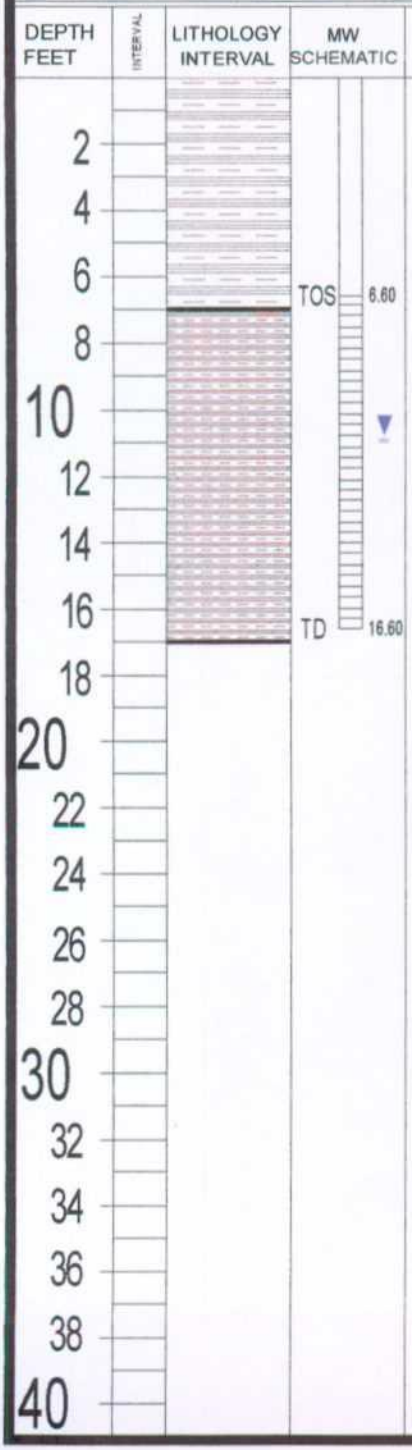
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #1

BORE / TEST HOLE REPORT

BORING #.....	BH - 1
MW #.....	1
PAGE #.....	1
DATE STARTED	7/31/06
DATE FINISHED	7/31/06
OPERATOR.....	KP
PREPARED BY	NJV

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: CHAVEZ GC A # 1 UNIT G, SEC. 3, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 372 FT., S47.5E FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.90 FT. ABOVE GROUND SURFACE.

DARK YELLOWISH BROWN SILTY SAND TO SILTY CLAY, SLIGHTLY COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM TO STIFF, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 11.96 FT. FROM GROUND SURFACE MEASURED ON 8/2/06.

DARK TO DUSKY YELLOWISH BROWN SILTY CLAY TO CLAY, SLIGHTLY TO MEDIUM PLASTIC, SLIGHTLY MOIST TO SATURATED, STIFF TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (7.0 - 17.0 FT. BELOW GRADE).

NOTE:
- SILTY SAND TO SILTY CLAY.
- SILTY CLAY TO CLAY.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

Monitor well consist of 2 inch PVC piping - casing from 2.90 ft. above grade to 6.60 ft. below grade, 0.010 slotted screen between 6.60 to 16.60 feet below grade, sand packed annular to 5.00 ft. below grade, bentonite chips between 3.00 to 5.00 feet below grade, completed remaining annular with clean auger cuttings, concreted locking well protector around above grade casing and secured with padlock.

DRAWING: CHAVEZ GC A 1 BH1-MW1.SKF | DATE: 8/6/06 | DWN BY: NJV

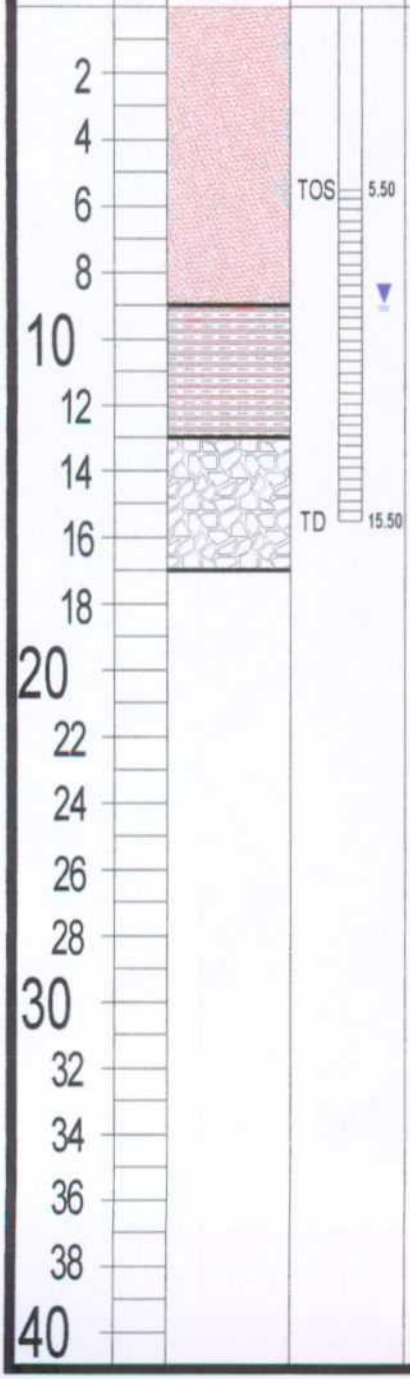
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2

BORE / TEST HOLE REPORT

BORING #.....	BH - 2
MW #.....	2
PAGE #.....	2
DATE STARTED	7/31/06
DATE FINISHED	7/31/06
OPERATOR.....	KP
PREPARED BY	NJV

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: CHAVEZ GC A # 1 UNIT G, SEC. 3, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 240 FT., S58E FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

TOP OF CASING APPROX. 2.50 FT. ABOVE GROUND SURFACE.

MODERATE YELLOWISH BROWN SAND (FILL MATERIAL), NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (0.0 - 9.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 9.11 FT. FROM GROUND SURFACE MEASURED ON 8/2/06.

DARK YELLOWISH BROWN SILTY CLAY TO CLAY, SLIGHTLY TO MEDIUM PLASTIC, WET TO SATURATED, STIFF TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (9.0 - 13.0 FT. BELOW GRADE).

MEDIUM GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (13.0 - 17.0 FT. BELOW GRADE).

NOTE:
- SILTY SAND TO SILTY CLAY.
- SILTY CLAY TO CLAY.
- SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

Monitor well consist of 2 inch PVC piping - casing from 2.50 ft. above grade to 5.50 ft. below grade, 0.010 slotted screen between 5.50 to 15.50 feet below grade, sand packed annular to 3.00 ft. below grade, bentonite chips between 1.00 to 3.00 feet below grade, completed remaining annular with clean auger cuttings, concreted locking well protector around above grade casing and secured with padlock.

DRAWING: CHAVEZ GC A 1 BH2-MW2.SKF | DATE: 8/6/06 | DWN BY: NJV

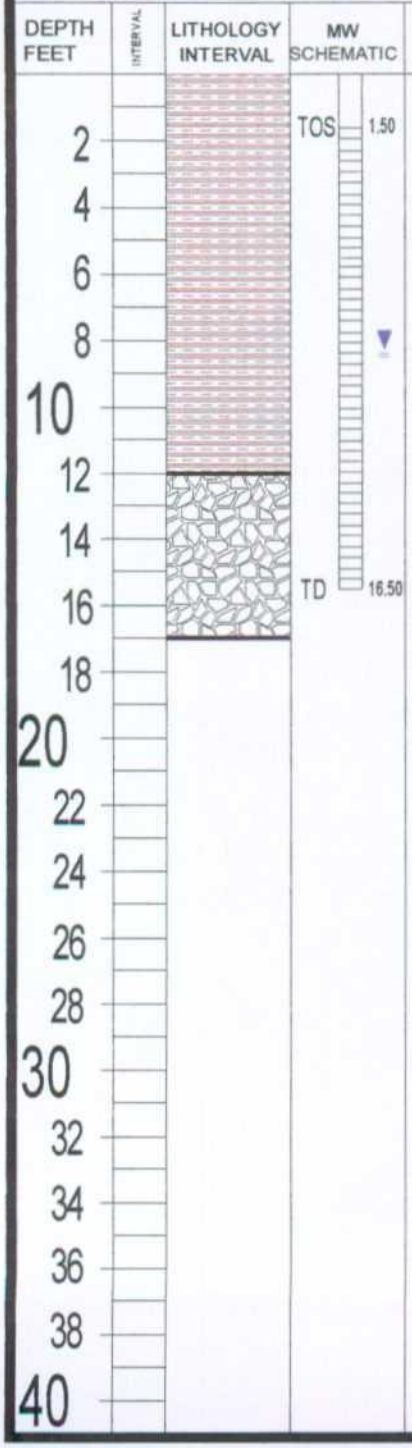
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #3

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION COMPANY
LOCATION NAME:	CHAVEZ GC A # 1 UNIT G, SEC. 3, T29N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	198 FT., S30W FROM WELL HEAD.

BORING #.....	BH - 3
MW #.....	3
PAGE #.....	3
DATE STARTED	7/31/06
DATE FINISHED	7/31/06
OPERATOR.....	KP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.50 FT. ABOVE GROUND SURFACE.

MODERATE TO DARK YELLOWISH BROWN SILTY CLAY TO CLAY, SLIGHTLY TO MEDIUM PLASTIC, SLIGHTLY MOIST TO SATURATED, FIRM TO STIFF TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (0.0 - 12.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 8.41 FT. FROM GROUND SURFACE MEASURED ON 8/2/06.

OLIVE TO BROWNISH GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (12.0 - 17.0 FT. BELOW GRADE).

NOTE:
- SILTY CLAY TO CLAY.
- SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

Monitor well consist of 2 inch PVC piping - casing from 2.50 ft. above grade to 1.50 ft. below grade, 0.010 slotted screen between 1.50 to 16.50 feet below grade, sand packed annular to 1.00 ft. below grade, bentonite chips between grade to 1.00 feet below grade, completed by concreting locking well protector around above grade casing and secured with padlock.

DRAWING: CHAVEZ GC A 1 BH3-MW3.SKF | DATE: 8/6/06 | DWN BY: NJV

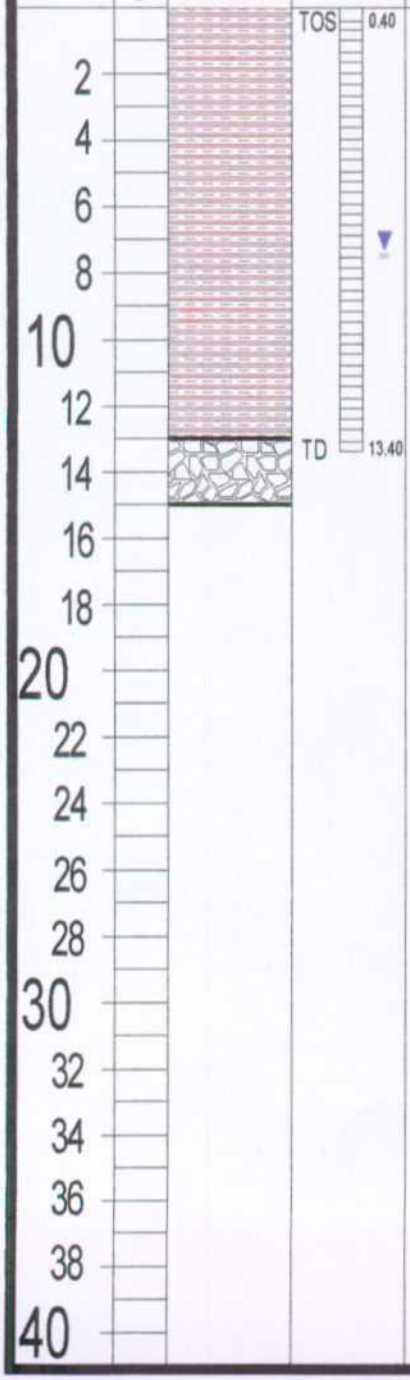
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #4

BORE / TEST HOLE REPORT

BORING #.....	BH - 4
MW #.....	4
PAGE #.....	4
DATE STARTED	7/31/06
DATE FINISHED	7/31/06
OPERATOR.....	KP
PREPARED BY	NJV

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: CHAVEZ GC A # 1 UNIT G, SEC. 3, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 73.5 FT., S65E FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.60 FT. ABOVE GROUND SURFACE.

MODERATE TO DARK YELLOWISH BROWN SILTY CLAY TO CLAY, SLIGHTLY TO MEDIUM PLASTIC, SLIGHTLY MOIST TO SATURATED, FIRM TO STIFF TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (0.0 - 13.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 7.48 FT. FROM GROUND SURFACE MEASURED ON 8/2/06.

OLIVE TO BROWNISH GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (13.0 - 15.0 FT. BELOW GRADE).

AUGER REFUSAL DUE TO LARGE COBBLES ENCOUNTERED @ 15.0 FT. BELOW GRADE.

NOTE:
- SILTY CLAY TO CLAY.
- SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.

Monitor well consist of 2 inch PVC piping - casing from 2.60 ft. above grade to 0.40 ft. below grade, 0.010 slotted screen between 0.40 to 13.40 feet below grade, sand packed annular to 0.40 ft. below grade, bentonite chips between grade to 0.40 feet below grade, completed by concreting locking well protector around above grade casing and secured with padlock.

DRAWING: CHAVEZ GC A 1 BH4-MW4.SKF | DATE: 8/6/06 | DWN BY: NJV

TABLES

BP AMERICA PRODUCTION CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

Chavez GC A # 1
UNIT G, SEC. 3, T29N, R9W

REVISED DATE: Sept. 6, 2006

FILENAME: (CHA-3Q06.WK4) NJV

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb) Benzene	Toluene	Ethyl Benzene	Total Xylene
12-Aug-06	MW #1	13.86	19.50	1,670	2,100	7.74		ND	ND	ND	ND
12-Aug-06	MW #2	11.45	18.00	2,070	2,700	7.60		ND	50	220	88.00
12-Aug-06	MW #3	10.90	19.00	760	1,200	7.05		**22**	ND	39	420
12-Aug-06	MW #4	9.70	16.00	528	900	7.16		ND	ND	ND	5.3
					NMWQCC GROUNDWATER STANDARDS			10	750	750	620

NOTES : 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS .

2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PROCEEDING RESULTS EXCEEDED .

GENERAL WATER QUALITY

BP AMERICA PRODUCTION COMPANY

CHAVEZ GC A # 1

Sample Date : August 7 , 2006

PARAMETERS	MW # 1	MW # 2	MW # 3	MW # 4	Units
LAB pH	7.78	7.78	7.19	7.29	s. u.
LAB CONDUCTIVITY @ 25 C	2,340	3,020	1,140	836	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	1,670	2,070	760	528	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	1,680	1,950	750	530	mg / L
SODIUM ABSORPTION RATIO	16.3	10.4	3.8	1.3	ratio
TOTAL ALKALINITY AS CaCO3	520	890	416	420	mg / L
TOTAL HARDNESS AS CaCO3	172	432	285	332	mg / L
BICARBONATE as HCO3	520	890	416	420	mg / L
CARBONATE AS CO3	< 0.1	< 0.1	< 0.1	< 0.1	mg / L
HYDROXIDE AS OH	< 0.1	< 0.1	< 0.1	< 0.1	mg / L
NITRATE NITROGEN	< 0.01	< 0.01	< 0.01	< 0.01	mg / L
NITRITE NITROGEN	< 0.01	< 0.01	< 0.01	< 0.01	mg / L
CHLORIDE	9.60	40.1	16.4	18.6	mg / L
FLUORIDE	0.78	3.44	0.73	0.46	mg / L
PHOSPHATE	0.72	< 0.1	< 0.1	< 0.1	mg / L
SULFATE	780	692	230	75.0	mg / L
IRON	0.028	< 0.01	0.7	0.245	mg / L
CALCIUM	68.0	168	83	115	mg / L
MAGNESIUM	0.48	2.81	18.5	10.70	mg / L
POTASSIUM	12.8	0.68	2.10	3.94	mg / L
SODIUM	490	498	146	52.3	mg / L
CATION / ANION DIFFERENCE	0.09	0.04	0.24	0.01	

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A & 14668

CHAVEZ GC A # 1
UNIT G, SEC. 3, T29N, R9W

LABORATORY (S) USED : HALL ENVIRONMENTAL
ENVIROTECH , INC.

Date : August 7, 2006

SAMPLER : N J V

Filename : 08-07-06.WK4

PROJECT MANAGER : J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	105.41	91.55	13.86	19.50	1130	7.74	2,100	23.9	2.75
MW - 2	102.98	91.53	11.45	18.00	1315	7.60	2,700	23.9	3.25
MW - 3	102.25	91.35	10.90	19.00	1205	7.05	1,200	21.1	4.00
MW - 4	101.28	91.58	9.70	16.00	1245	7.16	900	22.6	3.25
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	08/07/06	0830		

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)
Ideally a minimum of three (3) wellbore volumes:
2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in all MW's, slight HC odor detected physically in MW # 2. Collected BTEX & major anions / cations from all MW's. Surveyed MW tops on 8 / 7 / 06.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.50 ft., MW # 4 ~ 2.60 ft. above grade.

APPENDICES

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Aug-06*

CLIENT: Blagg Engineering
Project: Chavez GC A #1
Lab Order: 0608109

Lab ID: 0608109-01 **Collection Date:** 8/7/2006 11:30:00 AM
Client Sample ID: MW #1 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/12/2006 4:31:35 AM
Toluene	ND	1.0		µg/L	1	8/12/2006 4:31:35 AM
Ethylbenzene	ND	1.0		µg/L	1	8/12/2006 4:31:35 AM
Xylenes, Total	ND	3.0		µg/L	1	8/12/2006 4:31:35 AM
Surr: 4-Bromofluorobenzene	92.2	72.2-125		%REC	1	8/12/2006 4:31:35 AM

Lab ID: 0608109-02 **Collection Date:** 8/7/2006 1:15:00 PM
Client Sample ID: MW #2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	8/14/2006 2:17:50 PM
Toluene	50	10		µg/L	10	8/14/2006 2:17:50 PM
Ethylbenzene	220	10		µg/L	10	8/14/2006 2:17:50 PM
Xylenes, Total	88	3.0		µg/L	1	8/12/2006 5:03:04 AM
Surr: 4-Bromofluorobenzene	90.7	72.2-125		%REC	10	8/14/2006 2:17:50 PM

Lab ID: 0608109-03 **Collection Date:** 8/7/2006 12:05:00 PM
Client Sample ID: MW #3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	22	1.0		µg/L	1	8/12/2006 5:32:01 AM
Toluene	ND	1.0		µg/L	1	8/12/2006 5:32:01 AM
Ethylbenzene	39	1.0		µg/L	1	8/12/2006 5:32:01 AM
Xylenes, Total	420	30		µg/L	10	8/14/2006 3:21:13 PM
Surr: 4-Bromofluorobenzene	90.2	72.2-125		%REC	1	8/12/2006 5:32:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Aug-06*

CLIENT: Blagg Engineering
Project: Chavez GC A #1

Lab Order: 0608109

Lab ID: 0608109-04
Client Sample ID: MW #4

Collection Date: 8/7/2006 12:45:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/14/2006 4:21:48 PM
Toluene	ND	1.0		µg/L	1	8/14/2006 4:21:48 PM
Ethylbenzene	ND	1.0		µg/L	1	8/14/2006 4:21:48 PM
Xylenes, Total	5.3	3.0		µg/L	1	8/14/2006 4:21:48 PM
Surr: 4-Bromofluorobenzene	111	72.2-125		%REC	1	8/14/2006 4:21:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #1	Date Reported:	08-08-06
Laboratory Number:	38070	Date Sampled:	08-07-06
Chain of Custody:	14668	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.78**	s.u.		
Conductivity @ 25° C	**2,340**	umhos/cm		
Total Dissolved Solids @ 180C	**1,670**	mg/L		
Total Dissolved Solids (Calc)	**1,680**	mg/L		
SAR	**16.3**	ratio		
Total Alkalinity as CaCO3	**520**	mg/L		
Total Hardness as CaCO3	**172**	mg/L		
Bicarbonate as HCO3	**520**	mg/L	8.52	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**9.60**	mg/L	0.27	meq/L
Fluoride	**0.78**	mg/L	0.04	meq/L
Phosphate	**0.72**	mg/L	0.02	meq/L
Sulfate	**780**	mg/L	16.24	meq/L
Iron	**0.028**	mg/L	0.00	meq/L
Calcium	**68.0**	mg/L	3.39	meq/L
Magnesium	**0.48**	mg/L	0.04	meq/L
Potassium	**12.8**	mg/L	0.33	meq/L
Sodium	**490**	mg/L	21.32	meq/L
Cations			25.08	meq/L
Anions			25.10	meq/L
Cation/Anion Difference			**0.09%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Chavez GC A #1 Grab Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	08-08-06
Laboratory Number:	38071	Date Sampled:	08-07-06
Chain of Custody:	14668	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.78**	s.u.		
Conductivity @ 25° C	**3,020**	umhos/cm		
Total Dissolved Solids @ 180C	**2,070**	mg/L		
Total Dissolved Solids (Calc)	**1,950**	mg/L		
SAR	**10.4**	ratio		
Total Alkalinity as CaCO3	**890**	mg/L		
Total Hardness as CaCO3	**432**	mg/L		
Bicarbonate as HCO3	**890**	mg/L	14.59	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**40.1**	mg/L	1.13	meq/L
Fluoride	**3.44**	mg/L	0.18	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**692**	mg/L	14.41	meq/L
Iron	**<0.01**	mg/L	0.00	meq/L
Calcium	**168**	mg/L	8.38	meq/L
Magnesium	**2.81**	mg/L	0.23	meq/L
Potassium	**0.68**	mg/L	0.02	meq/L
Sodium	**498**	mg/L	21.66	meq/L
Cations			30.29	meq/L
Anions			30.31	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Chavez GC A #1 Grab Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	*Blagg / BP*	Project #:	94034-010
Sample ID:	MW #3	Date Reported:	08-08-06
Laboratory Number:	38072	Date Sampled:	08-07-06
Chain of Custody:	14668	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.19**	s.u.		
Conductivity @ 25° C	**1,140**	umhos/cm		
Total Dissolved Solids @ 180C	**760**	mg/L		
Total Dissolved Solids (Calc)	**750**	mg/L		
SAR	**3.8**	ratio		
Total Alkalinity as CaCO3	**416**	mg/L		
Total Hardness as CaCO3	**285**	mg/L		
Bicarbonate as HCO3	**416**	mg/L	6.82	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**16.4**	mg/L	0.46	meq/L
Fluoride	**0.73**	mg/L	0.04	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**230**	mg/L	4.79	meq/L
Iron	**0.7**	mg/L	0.03	meq/L
Calcium	**83.2**	mg/L	4.15	meq/L
Magnesium	**18.5**	mg/L	1.52	meq/L
Potassium	**2.10**	mg/L	0.05	meq/L
Sodium	**146**	mg/L	6.35	meq/L
Cations			12.08	meq/L
Anions			12.11	meq/L
Cation/Anion Difference			**0.24%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Chavez GC A #1 Grab Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #4	Date Reported:	08-08-06
Laboratory Number:	38073	Date Sampled:	08-07-06
Chain of Custody:	14668	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.29**	s.u.		
Conductivity @ 25° C	**836**	umhos/cm		
Total Dissolved Solids @ 180C	**528**	mg/L		
Total Dissolved Solids (Calc)	**530**	mg/L		
SAR	**1.3**	ratio		
Total Alkalinity as CaCO3	**420**	mg/L		
Total Hardness as CaCO3	**332**	mg/L		
Bicarbonate as HCO3	**420**	mg/L	6.88	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**18.6**	mg/L	0.52	meq/L
Fluoride	**0.46**	mg/L	0.02	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**75.0**	mg/L	1.56	meq/L
Iron	**0.245**	mg/L	0.01	meq/L
Calcium	**115**	mg/L	5.74	meq/L
Magnesium	**10.70**	mg/L	0.88	meq/L
Potassium	**3.94**	mg/L	0.10	meq/L
Sodium	**52.3**	mg/L	2.28	meq/L
Cations			8.99	meq/L
Anions			8.99	meq/L
Cation/Anion Difference			**0.01%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Chavez GC A #1 Grab Sample.**

Christine M Walters
Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENER. / BP AMERICA
Address: P.O. BOX 87 BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: CHAVEZ GC A #1
Project #: 2NV
Project Manager: JCB
Sampler: NV
Sample Temperature: 14°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	HEAL No.	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
8/7/06	1130	WATER	MW #1	2-40ml	✓		0608109-1	✓																
8/7/06	1315	WATER	MW #2	2-40ml	✓		-2	✓																
8/7/06	1205	WATER	MW #3	2-40ml	✓		-3	✓																
8/7/06	1245	WATER	MW #4	2-40ml	✓		-4	✓																

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	
8/8/06	0700	Milton Vig		
				8/9/06 9:40
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.

3.2 Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.

3.3 The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a risk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.

4.3 Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures.

4.4 Upon timely delivery of samples, HEAL will use its best efforts to comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical turnaround times are not guaranteed

4.5 At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard quality assurance review procedures.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.

5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary. Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.

5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

5.6 It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL.

5.8 Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

7. AMENDMENTS AND WAIVERS

7.1 HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whatsoever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.

7.2 No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance Storage of samples or extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

10. GOVERNING LAW

10.1 These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

14668

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location
BLAGG / BP	CHAVEZ GC A #1
Sampler: NV	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers		MAJOR ANIONS / CATIONS					Remarks
												PRESERVED COOL
												GRAB SAMPLES
MW #1	8/7/06	1130	38070	WATER	1		✓					
MW #2	8/7/06	1315	38071	WATER	1		✓					
MW #3	8/7/06	1205	38072	WATER	1		✓					
MW #4	8/7/06	1245	38073	WATER	1		✓					

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	8/7/06	1430	Christine M Walters	8/7/06	1430
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Chavez GC A #1 **Work Order:** 0608109

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB-III		*MBLK*			Batch ID: **R20262**		Analysis Date:	8/12/2006 2:03:56 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: B		*MBLK*			Batch ID: **R20273**		Analysis Date:	8/14/2006 1:17:10 PM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS-III		*LCS*			Batch ID: **R20262**		Analysis Date:	8/12/2006 7:56:33 AM	
Benzene	17.99	µg/L	1.0	90.0	85	115			
Toluene	18.42	µg/L	1.0	92.1	85	118			
Ethylbenzene	19.03	µg/L	1.0	95.1	85	116			
Xylenes, Total	59.71	µg/L	3.0	97.3	85	119			
Sample ID: 10NG BTEX LCS		*LCS*			Batch ID: **R20273**		Analysis Date:	8/14/2006 10:41:00 PM	
Benzene	1.844	µg/L	1.0	92.2	85	115			
Toluene	1.878	µg/L	1.0	93.9	85	118			
Ethylbenzene	1.994	µg/L	1.0	99.7	85	116			
Xylenes, Total	6.136	µg/L	3.0	102	85	119			
Sample ID: 100NG BTEX LCSD-I		*LCSD*			Batch ID: **R20262**		Analysis Date:	8/12/2006 8:47:53 AM	
Benzene	18.22	µg/L	1.0	91.1	85	115	1.25	27	
Toluene	17.82	µg/L	1.0	89.1	85	118	3.31	19	
Ethylbenzene	18.94	µg/L	1.0	94.7	85	116	0.453	10	
Xylenes, Total	58.76	µg/L	3.0	95.7	85	119	1.62	13	
Sample ID: 10NG BTEX LCSD		*LCSD*			Batch ID: **R20273**		Analysis Date:	8/14/2006 11:12:34 PM	
Benzene	1.942	µg/L	1.0	97.1	85	115	5.18	27	
Toluene	1.972	µg/L	1.0	98.6	85	118	4.88	19	
Ethylbenzene	2.084	µg/L	1.0	104	85	116	4.41	10	
Xylenes, Total	6.416	µg/L	3.0	107	85	119	4.46	13	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 8/9/2006

Work Order Number 0608109 | Received by NJM

Checklist completed by _____ Signature | 8/9/06 Date

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	**14°**	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Hall Environmental Analysis Laboratory

Date: *09-Mar-06*

(A)

CLIENT:	Blagg Engineering	**Client Sample ID:**	183 S 72 E @ 8'
Lab Order:	0603029	**Collection Date:**	2/24/2006 3:02:00 PM
Project:	BP-Chavez GC A1 Production	**Date Received:**	3/2/2006
Lab ID:	0603029-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/6/2006 3:31:56 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/6/2006 3:31:56 PM
Surr: DNOP	92.5	60-124		%REC	1	3/6/2006 3:31:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	8.1	5.0		mg/Kg	1	3/7/2006 6:53:03 PM
Surr: BFB	101	79-128		%REC	1	3/7/2006 6:53:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	3/7/2006 6:53:03 PM
Toluene	ND	0.050		mg/Kg	1	3/7/2006 6:53:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/7/2006 6:53:03 PM
Xylenes, Total	0.72	0.050		mg/Kg	1	3/7/2006 6:53:03 PM
Surr: 4-Bromofluorobenzene	103	87.5-115		%REC	1	3/7/2006 6:53:03 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	22	0.30		mg/Kg	1	3/7/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *01-May-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	213' S 25 W @ 7'
Lab Order:	0604257	**Collection Date:**	4/26/2006 12:40:00 PM
Project:	Chavez A 1	**Date Received:**	4/27/2006
Lab ID:	0604257-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/28/2006 5:29:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/28/2006 5:29:43 AM
Surr: DNOP	88.6	60-124		%REC	1	4/28/2006 5:29:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2006 12:44:15 PM
Surr: BFB	101	81.7-127		%REC	1	4/28/2006 12:44:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	4/28/2006 12:44:15 PM
Toluene	ND	0.050		mg/Kg	1	4/28/2006 12:44:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2006 12:44:15 PM
Xylenes, Total	ND	0.15		mg/Kg	1	4/28/2006 12:44:15 PM
Surr: 4-Bromofluorobenzene	106	77.6-114		%REC	1	4/28/2006 12:44:15 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	ND	3.0		mg/Kg	10	4/27/2006 8:02:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *01-May-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	210' S 2 E @ 7'
Lab Order:	0604257	**Collection Date:**	4/26/2006 12:47:00 PM
Project:	Chavez A 1	**Date Received:**	4/27/2006
Lab ID:	0604257-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/28/2006 6:02:46 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/28/2006 6:02:46 AM
Surr: DNOP	84.5	60-124		%REC	1	4/28/2006 6:02:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	42	5.0		mg/Kg	1	4/28/2006 1:13:25 PM
Surr: BFB	174	81.7-127	S	%REC	1	4/28/2006 1:13:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	4/28/2006 1:13:25 PM
Toluene	0.13	0.050		mg/Kg	1	4/28/2006 1:13:25 PM
Ethylbenzene	0.14	0.050		mg/Kg	1	4/28/2006 1:13:25 PM
Xylenes, Total	1.4	0.15		mg/Kg	1	4/28/2006 1:13:25 PM
Surr: 4-Bromofluorobenzene	111	77.6-114		%REC	1	4/28/2006 1:13:25 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	4.6	3.0		mg/Kg	10	4/27/2006 8:20:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *01-May-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	237' S 27 E @ 7'
Lab Order:	0604257	**Collection Date:**	4/26/2006 12:52:00 PM
Project:	Chavez A 1	**Date Received:**	4/27/2006
Lab ID:	0604257-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/28/2006 6:35:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/28/2006 6:35:49 AM
Surr: DNOP	84.7	60-124		%REC	1	4/28/2006 6:35:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2006 1:42:31 PM
Surr: BFB	99.7	81.7-127		%REC	1	4/28/2006 1:42:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	4/28/2006 1:42:31 PM
Toluene	ND	0.050		mg/Kg	1	4/28/2006 1:42:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2006 1:42:31 PM
Xylenes, Total	ND	0.15		mg/Kg	1	4/28/2006 1:42:31 PM
Surr: 4-Bromofluorobenzene	103	77.6-114		%REC	1	4/28/2006 1:42:31 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	12	3.0		mg/Kg	10	4/27/2006 8:37:36 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *01-May-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	246' S 54 E @ 7'
Lab Order:	0604257	**Collection Date:**	4/26/2006 1:03:00 PM
Project:	Chavez A 1	**Date Received:**	4/27/2006
Lab ID:	0604257-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	120	10		mg/Kg	1	4/28/2006 7:08:53 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/28/2006 7:08:53 AM
Surr: DNOP	117	60-124		%REC	1	4/28/2006 7:08:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	370	50		mg/Kg	10	4/28/2006 11:45:59 AM
Surr: BFB	215	81.7-127	S	%REC	10	4/28/2006 11:45:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.50		mg/Kg	10	4/28/2006 11:45:59 AM
Toluene	ND	0.50		mg/Kg	10	4/28/2006 11:45:59 AM
Ethylbenzene	0.62	0.50		mg/Kg	10	4/28/2006 11:45:59 AM
Xylenes, Total	6.4	1.5		mg/Kg	10	4/28/2006 11:45:59 AM
Surr: 4-Bromofluorobenzene	126	77.6-114	S	%REC	10	4/28/2006 11:45:59 AM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	110	3.0		mg/Kg	10	4/27/2006 8:55:01 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *22-May-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	255' S 34 E @ 9'
Lab Order:	0605144	**Collection Date:**	5/10/2006 11:10:00 AM
Project:	Chavez A #1	**Date Received:**	5/12/2006
Lab ID:	0605144-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	44	10		mg/Kg	1	5/18/2006 12:56:54 AM
Surr: DNOP	110	61.7-135		%REC	1	5/18/2006 12:56:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	330	25		mg/Kg	5	5/17/2006 7:48:14 PM
Surr: BFB	262	81.7-127	S	%REC	5	5/17/2006 7:48:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.25		mg/Kg	5	5/17/2006 7:48:14 PM
Toluene	0.57	0.25		mg/Kg	5	5/17/2006 7:48:14 PM
Ethylbenzene	0.40	0.25		mg/Kg	5	5/17/2006 7:48:14 PM
Xylenes, Total	25	0.75		mg/Kg	5	5/17/2006 7:48:14 PM
Surr: 4-Bromofluorobenzene	124	77.6-114	S	%REC	5	5/17/2006 7:48:14 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	25	1.5		mg/Kg	5	5/18/2006 5:24:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *02-Jun-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	234' S 67 E @ 8'
Lab Order:	0605244	**Collection Date:**	5/17/2006 9:25:00 AM
Project:	Chavez A #1	**Date Received:**	5/22/2006
Lab ID:	0605244-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/25/2006 3:40:40 PM
Surr: DNOP	145	61.7-135	S	%REC	1	5/25/2006 3:40:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2006 9:32:08 AM
Surr: BFB	98.8	81.7-127		%REC	1	5/25/2006 9:32:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	5/25/2006 9:32:08 AM
Toluene	ND	0.050		mg/Kg	1	5/25/2006 9:32:08 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2006 9:32:08 AM
Xylenes, Total	ND	0.15		mg/Kg	1	5/25/2006 9:32:08 AM
Surr: 4-Bromofluorobenzene	100	77.6-114		%REC	1	5/25/2006 9:32:08 AM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	29	1.5		mg/Kg	5	5/24/2006 5:55:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *02-Jun-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	288' S 68 E @ 8'
Lab Order:	0605244	**Collection Date:**	5/17/2006 9:33:00 AM
Project:	Chavez A #1	**Date Received:**	5/22/2006
Lab ID:	0605244-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/25/2006 4:14:20 PM
Surr: DNOP	154	61.7-135	S	%REC	1	5/25/2006 4:14:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2006 9:02:59 AM
Surr: BFB	96.8	81.7-127		%REC	1	5/25/2006 9:02:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	5/25/2006 9:02:59 AM
Toluene	ND	0.050		mg/Kg	1	5/25/2006 9:02:59 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2006 9:02:59 AM
Xylenes, Total	ND	0.15		mg/Kg	1	5/25/2006 9:02:59 AM
Surr: 4-Bromofluorobenzene	98.0	77.6-114		%REC	1	5/25/2006 9:02:59 AM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	48	1.5		mg/Kg	5	5/24/2006 6:12:54 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *02-Jun-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	354' S 47 E @ 8'
Lab Order:	0605244	**Collection Date:**	5/19/2006 9:25:00 AM
Project:	Chavez A #1	**Date Received:**	5/22/2006
Lab ID:	0605244-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/25/2006 4:48:13 PM
Surr: DNOP	121	61.7-135		%REC	1	5/25/2006 4:48:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2006 10:01:15 AM
Surr: BFB	98.7	81.7-127		%REC	1	5/25/2006 10:01:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: **HLM**
Benzene	ND	0.050		mg/Kg	1	5/25/2006 10:01:15 AM
Toluene	ND	0.050		mg/Kg	1	5/25/2006 10:01:15 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2006 10:01:15 AM
Xylenes, Total	ND	0.15		mg/Kg	1	5/25/2006 10:01:15 AM
Surr: 4-Bromofluorobenzene	101	77.6-114		%REC	1	5/25/2006 10:01:15 AM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	4.4	1.5		mg/Kg	5	5/24/2006 7:22:31 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *02-Jun-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	291' S 30 E @ 8'
Lab Order:	0605300	**Collection Date:**	5/26/2006 8:30:00 AM
Project:	Chavez A1	**Date Received:**	5/26/2006
Lab ID:	0605300-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/31/2006 11:46:23 AM
Surr: DNOP	84.1	61.7-135		%REC	1	5/31/2006 11:46:23 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2006 4:14:11 PM
Surr: BFB	84.6	81.7-127		%REC	1	5/31/2006 4:14:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	5/31/2006 4:14:11 PM
Toluene	ND	0.050		mg/Kg	1	5/31/2006 4:14:11 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2006 4:14:11 PM
Xylenes, Total	ND	0.15		mg/Kg	1	5/31/2006 4:14:11 PM
Surr: 4-Bromofluorobenzene	85.8	77.6-114		%REC	1	5/31/2006 4:14:11 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	5.3	1.5		mg/Kg	5	5/30/2006 9:40:33 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #1 @ 8'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:00:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	280	10		mg/Kg	1	4/25/2006 8:41:38 AM
Motor Oil Range Organics (MRO)	59	50		mg/Kg	1	4/25/2006 8:41:38 AM
Surr: DNOP	109	60-124		%REC	1	4/25/2006 8:41:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	43	25		mg/Kg	5	4/20/2006 5:56:39 PM
Surr: BFB	154	79-128	S	%REC	5	4/20/2006 5:56:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.25		mg/Kg	5	4/20/2006 5:56:39 PM
Toluene	ND	0.25		mg/Kg	5	4/20/2006 5:56:39 PM
Ethylbenzene	0.53	0.25		mg/Kg	5	4/20/2006 5:56:39 PM
Xylenes, Total	1.4	0.25		mg/Kg	5	4/20/2006 5:56:39 PM
Surr: 4-Bromofluorobenzene	104	84.4-117		%REC	5	4/20/2006 5:56:39 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	4.9	1.5		mg/Kg	5	4/24/2006 8:56:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #2 @ 8'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:12:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	25	10		mg/Kg	1	4/25/2006 9:14:56 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2006 9:14:56 AM
Surr: DNOP	109	60-124		%REC	1	4/25/2006 9:14:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2006 4:35:58 PM
Surr: BFB	106	79-128		%REC	1	4/21/2006 4:35:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/21/2006 4:35:58 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2006 4:35:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2006 4:35:58 PM
Xylenes, Total	0.28	0.050		mg/Kg	1	4/21/2006 4:35:58 PM
Surr: 4-Bromofluorobenzene	99.4	84.4-117		%REC	1	4/21/2006 4:35:58 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	3.2	1.5		mg/Kg	5	4/22/2006 4:34:29 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #3 @ 7'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:22:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	170	10		mg/Kg	1	4/25/2006 9:47:59 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2006 9:47:59 AM
Surr: DNOP	106	60-124		%REC	1	4/25/2006 9:47:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	770	50		mg/Kg	10	4/20/2006 8:02:41 PM
Surr: BFB	480	79-128	S	%REC	10	4/20/2006 8:02:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.50		mg/Kg	10	4/20/2006 8:02:41 PM
Toluene	ND	0.50		mg/Kg	10	4/20/2006 8:02:41 PM
Ethylbenzene	2.0	0.50		mg/Kg	10	4/20/2006 8:02:41 PM
Xylenes, Total	5.0	0.50		mg/Kg	10	4/20/2006 8:02:41 PM
Surr: 4-Bromofluorobenzene	129	84.4-117	S	%REC	10	4/20/2006 8:02:41 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	7.7	0.30		mg/Kg	1	4/22/2006 4:51:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #4 @ 7'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:31:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/26/2006 1:39:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/26/2006 1:39:36 PM
Surr: DNOP	97.5	60-124		%REC	1	4/26/2006 1:39:36 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2006 5:37:33 PM
Surr: BFB	102	79-128		%REC	1	4/21/2006 5:37:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/21/2006 5:37:33 PM
Toluene	ND	0.050		mg/Kg	1	4/21/2006 5:37:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2006 5:37:33 PM
Xylenes, Total	ND	0.050		mg/Kg	1	4/21/2006 5:37:33 PM
Surr: 4-Bromofluorobenzene	92.2	84.4-117		%REC	1	4/21/2006 5:37:33 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	1.1	0.30		mg/Kg	1	4/24/2006 9:14:11 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #5 @ 7'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:42:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2006 11:27:27 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2006 11:27:27 AM
Surr: DNOP	113	60-124		%REC	1	4/25/2006 11:27:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/20/2006 7:30:37 PM
Surr: BFB	89.3	79-128		%REC	1	4/20/2006 7:30:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/20/2006 7:30:37 PM
Toluene	ND	0.050		mg/Kg	1	4/20/2006 7:30:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/20/2006 7:30:37 PM
Xylenes, Total	ND	0.050		mg/Kg	1	4/20/2006 7:30:37 PM
Surr: 4-Bromofluorobenzene	92.3	84.4-117		%REC	1	4/20/2006 7:30:37 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	ND	1.5		mg/Kg	5	4/24/2006 9:31:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *28-Apr-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	TH #6 @ 7'
Lab Order:	0604150	**Collection Date:**	4/13/2006 3:52:00 PM
Project:	Chavez GC A #1	**Date Received:**	4/17/2006
Lab ID:	0604150-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2006 12:00:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2006 12:00:47 PM
Surr: DNOP	100	60-124		%REC	1	4/25/2006 12:00:47 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/20/2006 9:06:44 PM
Surr: BFB	85.7	79-128		%REC	1	4/20/2006 9:06:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/20/2006 9:06:44 PM
Toluene	ND	0.050		mg/Kg	1	4/20/2006 9:06:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/20/2006 9:06:44 PM
Xylenes, Total	ND	0.050		mg/Kg	1	4/20/2006 9:06:44 PM
Surr: 4-Bromofluorobenzene	91.5	84.4-117		%REC	1	4/20/2006 9:06:44 PM
EPA METHOD 9056A: ANIONS						Analyst: **MAP**
Chloride	2.2	0.30		mg/Kg	1	4/22/2006 5:44:07 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address:
Address: 200 ENERGY COURT. FARMINGTON. NM 87410
Facility or well name: CHAVEZ GC A #1 API #: 30-045- 08768 U/L or Qtr/Qtr G Sec 3 T 29N R 9W
County: SAN JUAN Latitude 36.75634 Longitude 107.76332 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit	**Below-grade tank**
Type: Drilling ☐ Production ☐ Disposal ☒ SEPARATOR Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ STEEL TANK Liner type: Synthetic ☐ Thickness _____mil Clay ☐ Pit Volume _____bbl	Volume: _____bbl Type of fluid: N/A Construction material: Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	20
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	10
	Ranking Score (Total Points)		30

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility BP CROUCH MESA LF. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☒ If yes, show depth below ground surface _____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PIT LOCATED APPROXIMATELY 240 FT. S58E FROM WELL HEAD.
PIT EXCAVATION: WIDTH 60 ft., LENGTH 30 ft., DEPTH 11 ft. .
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ EXCAVATE
Cubic yards: 500
GROUNDWATER ENCOUNTERED, MONITOR WELL REQUIRED

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.**

Date: 02/08/06

PrintedName/Title Jeff Blagg – P.E. # 11607 Signature Jeffrey a Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____

30-045-08168 36.15654 x 107.16552 VML

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B1756
COCR NO: 15558

S

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: CHAVEZ GC A WELL #: 1 TYPE: SEP
QUAD/UNIT: G SEC: 3 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1650 FNL x 1650 FEL J/N/E CONTRACTOR: HDI (ONOFRE)

DATE STARTED: 2/10/06
DATE FINISHED: 2/15/06
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 60 FT. x 30 FT. x 11 FT. DEEP. CUBIC YARDAGE: 500±
DISPOSAL FACILITY: BP CROUCH MESA L.F. REMEDIATION METHOD: EXCAVATE
LAND USE: FEE RANCH LEASE: FEE FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 240 FT. S 58E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <50 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <1000
NMOCD RANKING SCORE: 30 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 52.9 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 1530 am/pm DATE: 2/15/06

SOIL TYPE: (SAND / SILTY SAND) / SILT / (SILTY CLAY) / CLAY / GRAVEL / OTHER
SOIL COLOR: DARK TAN
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / (SLIGHTLY PLASTIC) / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / SLIGHTLY MOIST / (MOIST / WET / SATURATED) / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) NO EXPLANATION - REMOVED SOILS W/ GRAY & BLACK
HC ODOR DETECTED: (YES) NO EXPLANATION - MODERATE/STRONG IN REMOVED SOILS
SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS. -
ADDITIONAL COMMENTS: 15'x15'x6' DEEP PIT W/ 95 BBL STEEL TANK. USE BACKHOE & TRACKHOE TO REMOVE IMPACTED SOILS to Below G.W. ORIGINAL PIT @ 240' S58°E OF wellhead.

MW REQUIRED

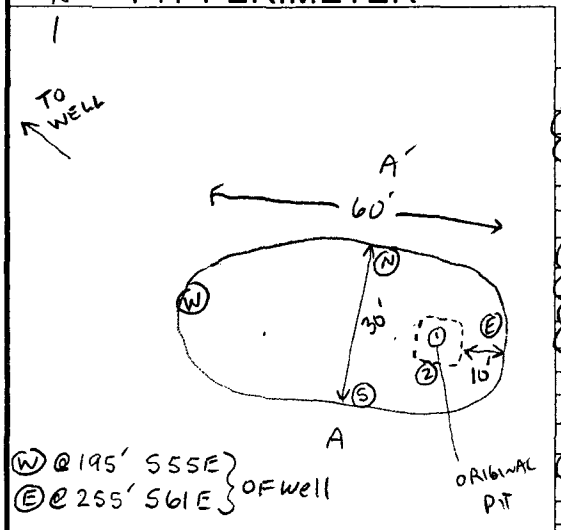
(GROUNDWATER ENCOUNTERED)

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE 0 FT

PIT PERIMETER



W @ 195' S55E } OF well
E @ 255' S61E }

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

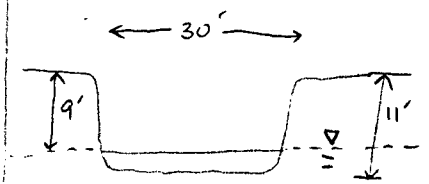
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)	
1 @ 5'	934	2/10/06
2 @ 9'	414	
3 @		
4 @		
5 @		
S @ 8'	0.7	2/15/06
E @ 8'	0.0	
N @ 8'	0.0	
W @ 8'	61	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
W @ 8'	TPH	1430
	BTEX	
	Cl-	
	PASSED	

PIT PROFILE



TRAVEL NOTES: CALLOUT: ONSITE: 2/10-15/2006

BLAGG ENGINEERING INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

February 14, 2006

Mr. Glenn von Gonten, Hydrologist
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: BP America Production Company
Notice of Potential Groundwater Impact
Chavez GC A1
(G)Sec. 3 - T29N - R9W, San Juan County, NM

Dear Mr. von Gonten:

On behalf of BP America Production Company, Blagg Engineering, Inc. (BEI) has identified potential groundwater impacts at the subject location. During equipment modifications on February13, 2006 soils impacted with produced hydrocarbon were identified around a sub-grade tank. During removal of this tank, groundwater was found at a depth of approximately 10 feet below ground surface. Visual inspection indicated that potentially impacted soils were in contact with groundwater in the area of this sub-grade tank.

The Chavez GC A1 is located on private property near Turley, New Mexico. BP intends to address the impact by excavating contaminated soils and transporting them to the BP Crouch Mesa landfarm/compost facility. Following this remedial effort, the site will be placed on BP's groundwater monitoring program to quantify residual water quality.

Mr. Denny Foust of the NMOCD Aztec District office was notified via voice mail of this potential impact on February 14, 2006.

If you have questions or need additional information, please contact either myself at (505)632-1199 or Mr. Don Brooks of BP at (505)326-9200.

Respectfully:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

cc: Denny Foust - NMOCD Aztec
Don Brooks - BP SJ Op. Ctr.

File: GWrelease.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	W @ 8'	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	02-15-06
Chain of Custody No:	15558	Date Received:	02-15-06
Sample Matrix:	Soil	Date Extracted:	02-16-06
Preservative:	Cool	Date Analyzed:	02-17-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Chavez GC A 1 Separator.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	W @ 8'	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	02-15-06
Chain of Custody:	15558	Date Received:	02-15-06
Sample Matrix:	Soil	Date Analyzed:	02-17-06
Preservative:	Cool	Date Extracted:	02-16-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**15.5**	**1.7**
Ethylbenzene	**5.4**	**1.5**
p,m-Xylene	**16.7**	**2.2**
o-Xylene	**6.4**	**1.0**
Total BTEX	**44.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Chavez GC A 1 Separator.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	W @ 8'	Date Reported:	02-17-06
Lab ID#:	36244	Date Sampled:	02-15-06
Sample Matrix:	Soil	Date Received:	02-15-06
Preservative:	Cool	Date Analyzed:	02-16-06
Condition:	Cool and Intact	Chain of Custody:	15558

Parameter	Concentration (mg/Kg)
Total Chloride	**9.9**

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Chavez GC A 1 Separator.**

Mary Bruce
Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

15558

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / BP	CHAVEZ GC A1	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Cl⁻				Remarks
W@8'	2/15/06	1430	36244	SOIL	1	X	X	X				SEPARATOR

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	2/15/06	1625	M Bruce	2/15/06	1625
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-17-06 QA/QC	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-17-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.0056E+003	1.0066E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0006E+003	1.0026E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 36244 - 36246.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-17-BTEX QA/QC	Date Reported:	02-17-06
Laboratory Number:	36244	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-17-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	3.3143E+006	3.3209E+006	0.2%	ND	0.2
Toluene	3.3143E+006	3.3209E+006	0.2%	ND	0.2
Ethylbenzene	1.3592E+007	1.3619E+007	0.2%	ND	0.2
p,m-Xylene	4.8154E+007	4.8251E+007	0.2%	ND	0.2
o-Xylene	3.1896E+007	3.1960E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	15.5	15.4	0.6%	0 - 30%	1.7
Ethylbenzene	5.4	5.4	0.0%	0 - 30%	1.5
p,m-Xylene	16.7	16.6	0.6%	0 - 30%	2.2
o-Xylene	6.4	6.4	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	15.5	50.0	65.5	100.0%	46 - 148
Ethylbenzene	5.4	50.0	55.3	99.8%	32 - 160
p,m-Xylene	16.7	100	116	99.7%	46 - 148
o-Xylene	6.4	50.0	56.4	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 36244 - 36246.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865