

3R - 090

**ANNUAL
MONITORING
REPORT**

06/13/2005



Souder, Miller & Associates ♦ P.O. Box 2606 ♦ Farmington, NM 87499-2606
612 East Murray Drive ♦ Farmington, NM 87401-6624 ♦ (505) 325-5667 ♦ fax (505) 327-1496

February 21, 2005

RECEIVED
32090

ConocoPhillips
Attn.: Mr. Neal Goates, RM&R Site Manager
Threadneedle Office
PO Box 2197
Houston, TX 77252-2197

JUN 13 2005

Oil Conservation Division
Environmental Bureau

RE: 2004 Annual Ground Water Monitoring Report
ConocoPhillips Location: NELL-HALL #1,
Unit M, Sec. 07, T30N, R11W, NMMPM, San Juan Co., NM
SMA Project #: 5114223

Dear Mr. Goates,

The following report summarizes the ground water monitoring activities conducted by Souder Miller and Associates (SMA) on behalf of ConocoPhillips, at the Nell Hall #1, located near Aztec, NM. This report covers the calendar year of 2004, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

Historically ground water levels in the area fluctuate leading to periods of the year when there is no measurable water in any of the previously existing monitoring wells or sparge points. The early spring and winter months are routinely the months with the lowest water levels.

SUMMARY OF 2004 ACTIVITIES:

Three ground water monitoring wells were installed in February 2004, and sampled in March 2004. These wells were installed deep enough so that there would be measurable ground water in them year round. The well installation and the results of the initial round of ground water sampling are documented in the *Monitoring Well Installation Report*, dated May 7, 2004.

Additional ground water sampling events were conducted in July, October, and December of 2004. Samples were collected from only the three new wells during these events. Samples were analyzed for benzene, toluene, ethyl benzene and

Table 1. ConocoPhillips Nell Hall #1 Monitoring Well Specifications and Groundwater Elevation Table

| Well ID | Date Installed | Total Depth (ft. bgs) | Screen Interval (ft) | Elevation (ft. msl) (TOC) | Date Measured | Groundwater Level (ft TOC) | Groundwater Elevation (ft msl) |
|---------|----------------|-----------------------|----------------------|---------------------------|---------------|----------------------------|--------------------------------|
| MW-4 | 2/18/2004 | 35 | 5-35 | 5614.87 | 3/8/2004 | 36.04 | 5578.83 |
| | | | | | 7/19/2004 | 8.44 | 5606.43 |
| | | | | | 10/27/2004 | 19.69 | 5595.18 |
| | | | | | 12/27/2004 | 27.58 | 5587.29 |
| | | | | | 5/10/2005 | dry | |
| MW-5 | 2/17/2004 | 39 | 4-39 | 5615.86 | 3/8/2004 | 37.19 | 5578.67 |
| | | | | | 7/19/2004 | 9.38 | 5606.48 |
| | | | | | 10/27/2004 | 21.07 | 5594.79 |
| | | | | | 12/27/2004 | 28.99 | 5586.87 |
| | | | | | 5/10/2005 | 39.79 | 5576.07 |
| MW-6 | 2/18/2004 | 35 | 5-35 | 5615.44 | 3/8/2004 | 36.27 | 5579.17 |
| | | | | | 7/19/2004 | 9.43 | 5606.01 |
| | | | | | 10/27/2004 | 19.33 | 5596.11 |
| | | | | | 12/27/2004 | 28.62 | 5586.82 |
| | | | | | 5/10/2005 | dry | |

ft. = Feet

msl = Mean sea level

TOC = Top of casing

bgs = below ground surface

Nell Hall #1 Site Summary
Conoco Phillips
January 27, 2004

Goal for 2004: Bring monitoring well network into useful condition, evaluate current site condition, get site on MNA/RBCA track

Goal for 2005 and beyond: Propose closure following 4 quarters < NMWQCC stds

I. Hydrogeologic Characteristics

- A. Depth to ground water – ~14' during irrigation, 25-30' during winter, 6.6' in 9/01
- B. Ground water gradient – Variable with irrigation, E to NE in summer, trough with SE and NW components in 10/03
- C. Vadose zone soils – unconsolidated alluvium, silt and sand
- D. Aquifer matrix – same as vadose zone, $K = \sim 10^{-3}$ cm/s

II. Vadose Zone Contaminant Conditions

- A. Scarce data from soil borings, SB's drilled in 1990s

III. Groundwater Contaminant Conditions

| Monitoring Point | Completion | Notes |
|------------------|---------------------------|---|
| MW-1 | 2" PVC, Screen 18-28' bgs | ND or < NMWQCC since 9/00 |
| MW-2 | 2" PVC, Screen 17-27' bgs | ND or < NMWQCC since 6/97 |
| MW-3 | 2" PVC, Screen 17-27' bgs | ND or < NMWQCC since 6/96 |
| SP-1 | 2" PVC, Screen 17-28' bgs | < NMWQCC in 9/98 |
| SP-2 | 2" PVC, Screen 17-27' bgs | < NMWQCC in 9/98 |
| SP-6 | 2" PVC, Screen 18-28' bgs | ND or < NMWQCC since 9/01 |
| SP-7 | 2" PVC, Screen 17-27' bgs | Typically > NMWQCC for B (~50 ppb) and X (~2000 ppb), decreasing trend since 1999 |
| SP-8 | 2" PVC, Screen 16-26' bgs | Typically < NMWQCC, B spike to 94 ppb in 6/03 |

IV. Monitoring Well Network Condition

- A. Three MWs generally along NW-SE line – improper location and completion (17'-27'), MWs often dry or vice versa – screen is submerged
- B. Six sparge points also being used as MWs – improper completion for monitoring (screen from 16-26')

V. Recommendations

- A. Abandon all old MWs and old sparge points
- B. Propose 3 new 2" i.d. PVC MWs, TD = 35', Screen 5'-35', log soil conditions
 - 1 MW in area of SP-7/SP-8, 1 MW just S of existing MW-1, 1 MW near MW-3
- C. Tier 1 RBCA analysis to demonstrate lack of potential receptors
- D. Evaluate site conditions with data from new wells
- E. Sample impacted wells quarterly (BTEX, DO, NO₄, Fe²⁺, SO₄, PO₄), all wells annually
- F. Annual MNA progress report
- G. Propose closure following 4 quarters < NMWQCC stds



February 3, 2004

#5114223

Mr. William C. Olson
Environmental Bureau
Oil Conservation Division
New Mexico Energy, Minerals & Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: PLAN FOR FUTURE WORK, CONOCOPHILLIPS NELL HALL #1

Dear Mr. Olson:

Souder, Miller & Associates (SMA) has prepared this letter on behalf of ConocoPhillips to confirm the results of the January 27, 2004 meeting between ConocoPhillips and the Oil Conservation Division (OCD). The meeting established a plan for future work on the ConocoPhillips Nell Hall #1 site. ConocoPhillips and SMA understand that the plan consists of:

1. Installation of three (3) new monitoring wells in locations agreed to at the meeting. The wells shall be completed with 2 inch inside diameter PVC casing and screened from approximately 5-35 feet below ground surface.
2. Sample the three new monitoring wells quarterly for benzene, toluene, ethylbenzene and total xylenes by EPA Method 8021B and for biodegradation parameters for the first year. Monitor all site wells for ground water elevation data during the first year.
3. Prepare a year end summary report of site activities. The report will recommend a monitoring program and abandonment of out of service wells. The monitoring program will likely consist of once annual monitoring of any impacted wells until the concentration of contaminants in impacted wells is below New Mexico Water Quality Control Commission standards. At that time, the impacted wells will be monitored quarterly until four quarters of below standard data are achieved. Other site wells will be monitored in the final, fourth quarter to verify site closure.

If this is not OCD's understanding of the plan for future work, please inform me within 10 business days (505-473-9211, rsa@soudermiller.com). ConocoPhillips and SMA appreciated the opportunity to meet with you and establish a path towards closure for this project.

Sincerely,

SOUDER, MILLER & ASSOCIATES

A handwritten signature in black ink, appearing to read "Reid S. Allan".

Reid S. Allan
Vice President/Senior Scientist

Cc: Mr. Neal Goates, ConocoPhillips

Scientists & Engineers

www.soudermiller.com

total xylenes. Depths to ground water in all existing wells were measured during the July and December events.

SAMPLING:

Water levels were measured on the monitoring wells prior to purging and sampling. Water samples were collected, preserved and transported in accordance with Environmental Protection Agency (EPA) prescribed procedures with proper chain-of-custody protocol followed. The laboratory analyses ordered followed the monitoring plan.

Table 1 summarizes the monitoring well data and water levels measured during the current sampling events. Table 2 summarizes the laboratory results for BTEX compounds from the current sampling events.

The original copies of the laboratory reports for the calendar year 2004, along with all laboratory QA/QC documentation and chains-of-custody, are attached to this report.

Summary and Conclusions:

The following conclusions are based on the 2004 ground water monitoring results and trends associated with a former production pit at the Nell-Hall #1 well location:

1. Ground water samples collected from MW-5 shows BTEX levels below the New Mexico Water Quality Control Commission (NMWQCC) standards during the four sampling events.
2. Ground water samples collected from MW-4 and MW-6 showed BTEX contamination levels above the New Mexico Water Quality Control Commission (NMWQCC) standards.
3. The spike in BTEX concentrations during the initial sampling event in March 2004 is likely due to the disturbance of the soil from drilling activities.
4. BTEX contamination of ground water fluctuates with the rise and fall of the ground water elevation.
5. The ground water during 2004 fluctuated seasonally with changes in irrigation and flow in the Animas River.

RECOMMENDATION:

1. Continue the sampling of monitoring wells until four consecutive sampling events demonstrates that contamination levels are below NMWQCC standards.

LIMITATIONS AND CLOSURE:

This ground water monitoring report documents the results of ground water monitoring for the ConocoPhillips Nell Hall No. 1 well location during the calendar year 2004. This report format follows the monitoring plan, dated October 15, 1997.

The scope of SMA's services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of this report. All work has been performed in accordance with generally accepted professional practices in petroleum and environmental engineering, and hydrogeology.

Souder, Miller and Associates has prepared this document, for the exclusive use of ConocoPhillips, as it pertains to the referenced well location operated by ConocoPhillips.

If there are any questions regarding this status report, please contact either Reid Allan or Walter Gage at Souder Miller and Associates, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,



Walter Gage
Geologist

Reviewed by:



Reid Allan
Senior Geologist

Souder Miller and Associates

Attachments: Table 1: Ground Water Elevations
Table 2: Ground Water BTEX Results
Figure 1: Vicinity Map
Figure 2: Site Map
Figure 3, 4, & 5: Potentiometric Surface Map
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCOPHILLIPS, Inc.

Neal Goates / Site Manager
(Name/Title)
3/17/05
(Date)

2004 annual QM Rpt.doc

REFERENCES:

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1997 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 9, 1999, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1998 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM.*

On Site Technologies, Ltd., January 10, 2000, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1999 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM*

Souder, Miller and Associates, July 14, 2004, Report to Neal Goates,
ConocoPhillips, *Monitoring Well Installation Report, Nell Hall No. 1, Flora Vista, NM*

Table 1

Ground Water Elevations
 ConocoPhillips Nell Hall # 1
 Flora Vista, NM

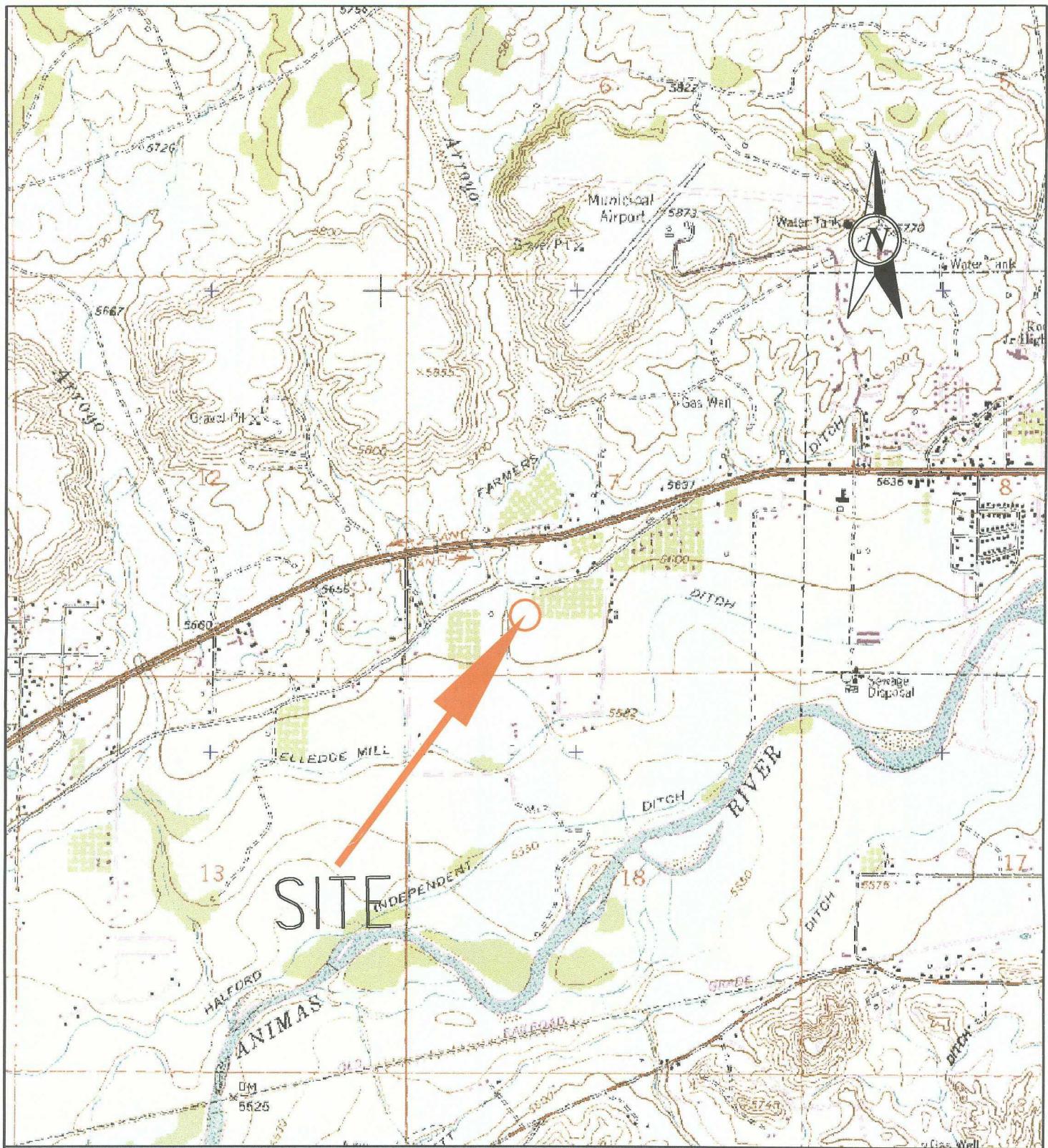
| Well Location | Date Measured | Top of Casing Elevation | Total Depth | Depth to Water | Adj G.W. Elevation |
|---------------|---------------|-------------------------|-------------|----------------|--------------------|
| MW-04 | 3/8/2004 | | | 36.04 | 5578.83 |
| | 7/19/2004 | 5614.87 | 37.57 | 8.44 | 5606.43 |
| | 10/27/2004 | | | 19.69 | 5595.18 |
| | 12/27/2004 | | | 27.58 | 5587.29 |
| MW-05 | 3/8/2004 | | | 37.19 | 5578.67 |
| | 7/19/2004 | 5615.86 | 42.75 | 9.38 | 5606.48 |
| | 10/27/2004 | | | 21.07 | 5594.79 |
| | 12/27/2004 | | | 28.99 | 5586.87 |
| MW-06 | 3/8/2004 | | | 36.27 | 5579.17 |
| | 7/19/2004 | 5615.44 | 38.21 | 9.43 | 5606.01 |
| | 10/27/2004 | | | 19.33 | 5596.11 |
| | 12/27/2004 | | | 28.62 | 5586.82 |

Table 2

Ground Water BTEX Results
 ConocoPhillips Neil Hall # 1
 Flora Vista, NM
 All results in ppb

| Analytical Method 8021 | | | | | | |
|------------------------|------------|---------|---------------|---------------|---------|-------|
| Well No | Date | Benzene | Ethyl-Benzene | Total Xylenes | Toluene | |
| MW-4 | 3/8/2004 | 13 | 64 | 1,400 | 12 | |
| | 7/19/2004 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | |
| | 10/27/2004 | 11 | 21 | 130 | 8 | |
| | 12/27/2004 | <2.5 | <2.5 | <5.0 | <2.5 | |
| MW-5 | 3/8/2004 | 1.1 | 1 | 17 | 17 | < 0.5 |
| | 7/19/2004 | < 0.5 | < 0.5 | 0.72 | 0.72 | 0.55 |
| | 10/27/2004 | < 0.5 | < 0.5 | < 1.0 | < 1.0 | < 0.5 |
| | 12/27/2004 | < 0.5 | < 0.5 | < 1.0 | < 1.0 | < 0.5 |
| MW-6 | 3/8/2004 | 2,500 | 1,600 | 21,031 | 14 | |
| | 7/19/2004 | < 0.5 | 0.98 | 2.6 | 2.6 | < 0.5 |
| | 10/27/2004 | 0.4 | 0.5 | 2.1 | 2.1 | 0.3 |
| | 12/27/2004 | 45 | 14 | 71.7 | 71.7 | 6.8 |
| Regulatory Limits | | 10 | 750 | 620 | 750 | |

< x.x = not detected at or above x.x detection limit



SITE LOCATION: NW 1/4 SW 1/4 SECTION 7 T 30N R 19W
 SOURCE MAP: FLORA VISTA, NEW MEXICO USGS QUADRANGLE

SCALE

0' 1000' 2000' 4000'

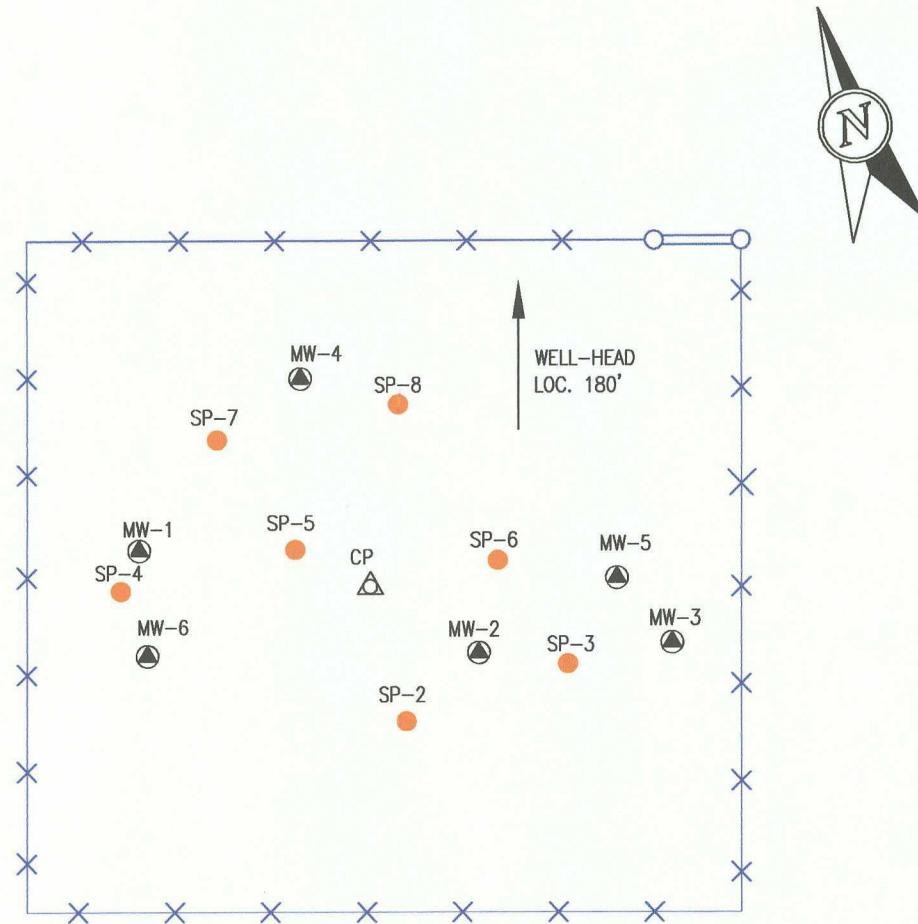


Civil / Environmental
Scientists & Engineers

612 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

| | |
|---------------------|---------------|
| APPROVED: RSA | DATE: |
| DRAWN BY: JNAKAI | DATE: 1/22/04 |
| REVISIONS BY: TLONG | DATE: 1/7/05 |
| PROJECT # 5114223 | FIGURE: 1 |

VICINITY MAP
CONOCOPHILLIPS - NELL HALL #1
FLORA VISTA, NEW MEXICO



LEGEND

- MW3** - MONITORING WELL LOCATIONS
- SP3** - SPARGE POINT LOCATIONS
- CP** - SURVEY CONTROL POINT
- FENCE

SCALE

0' 20' 40' 80'

NOTE: SP#1 REMOVED.



Civil/Environmental
Sciences & Engineers

612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: RSA

DATE:

DRAWN BY: JNAKAI

DATE: 1/22/04

REVISIONS BY: TLONG

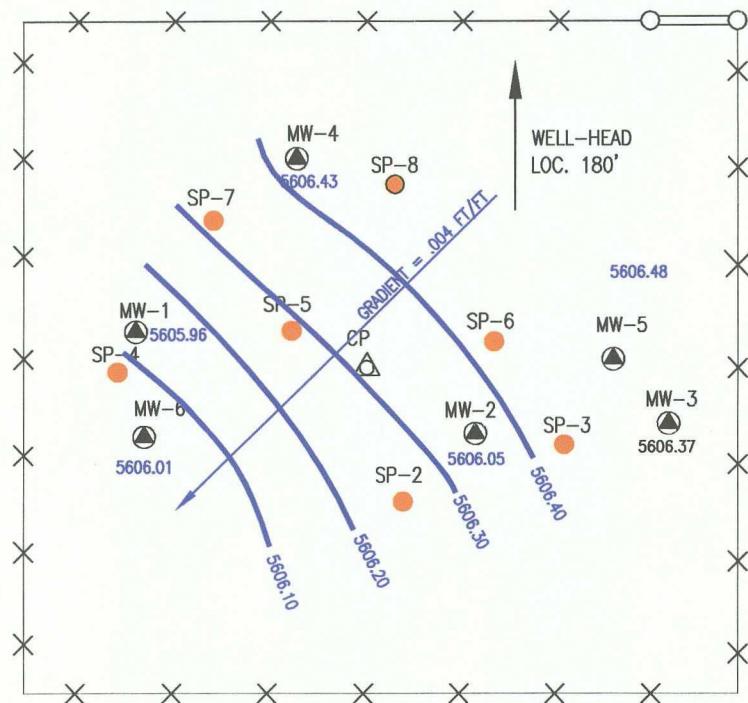
DATE: 1/7/05

PROJECT # 5114223

FIGURE: 2

SITE MAP

CONOCOPHILLIPS - NELL HALL #1
FLORA VISTA, NEW MEXICO



LEGEND

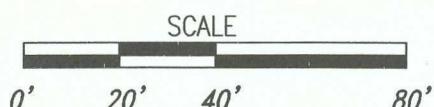
MW-5
— MONITORING WELL LOCATIONS

SP3
● — SPARGE POINT LOCATIONS

CP
△ — SURVEY CONTROL POINT

— GROUND WATER CONTOUR

— FENCE



NOTE: SP#1 REMOVED.

POTENTIOMETRIC SURFACE MAP

7/19/04

CONOCOPHILLIPS - NELL HALL #1

FLORA VISTA, NEW MEXICO



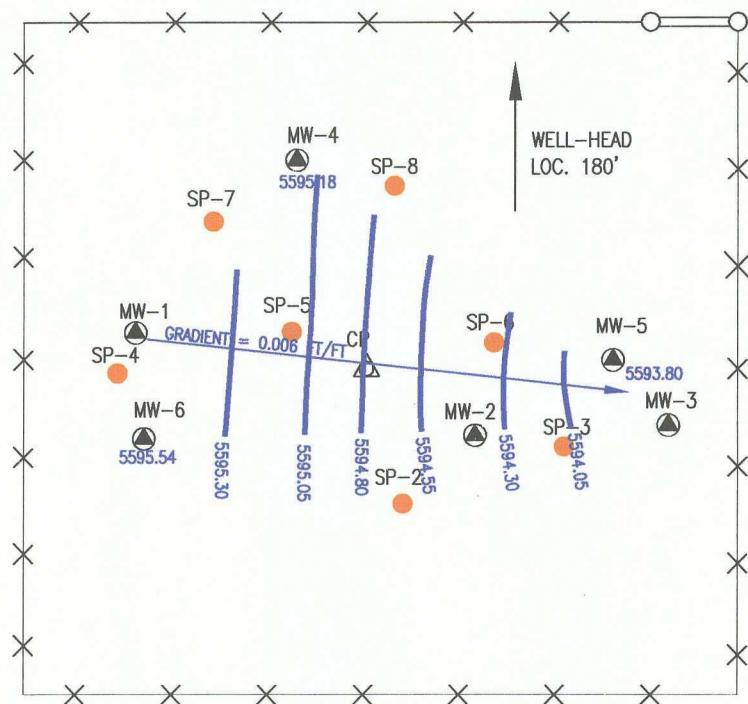
Civil / Environmental
Scientists & Engineers
612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: RSA DATE:

DRAWN BY: TLONG DATE: 1/10/05

REVISIONS BY: DATE:

PROJECT # 5114223 FIGURE: 3



LEGEND

- MW-5 - MONITORING WELL LOCATIONS
5593.08
- SP3 - SPARGE POINT LOCATIONS
- CP - SURVEY CONTROL POINT
- GROUND WATER CONTOUR (.25 FOOT INTERVAL)
- FENCE

SCALE
0' 20' 40' 80'

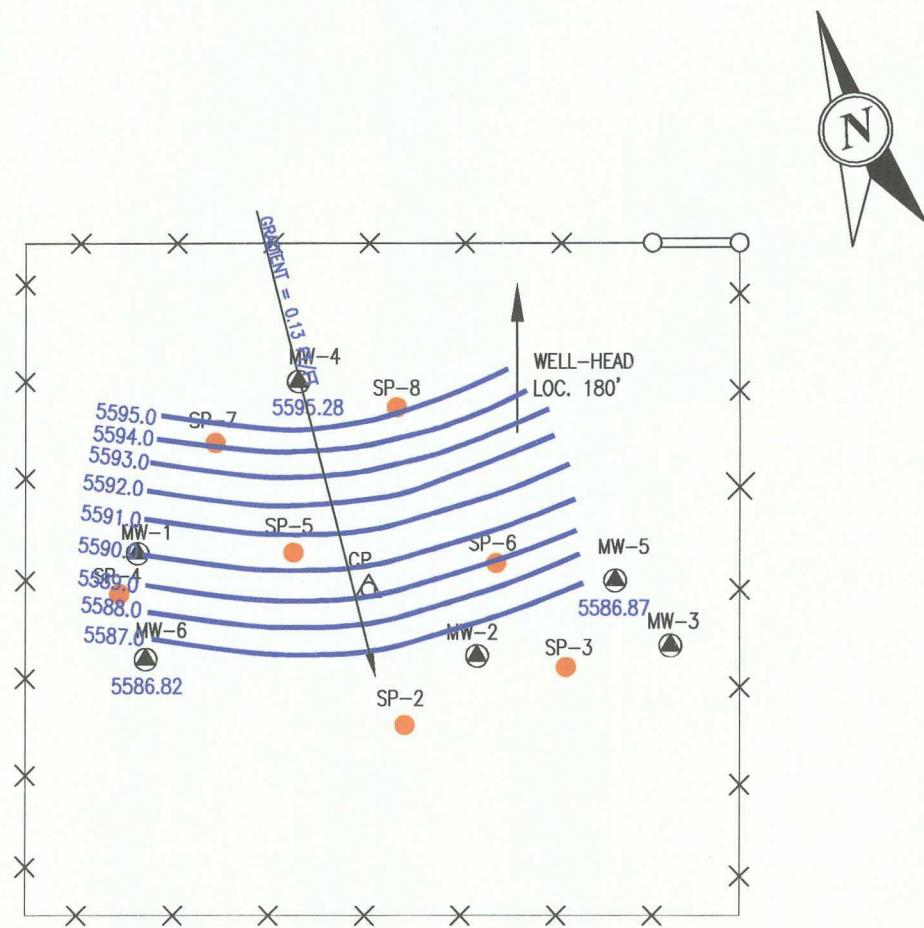
NOTE: SP#1 REMOVED.



Civil / Environmental
Scientists & Engineers
612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

| | |
|-------------------|---------------|
| APPROVED: RSA | DATE: |
| DRAWN BY: TLONG | DATE: 1/10/05 |
| REVISIONS BY: | DATE: |
| PROJECT # 5114223 | FIGURE: 4 |

POTENTIOMETRIC SURFACE MAP
10/27/04
CONOCOPHILLIPS - NELL HALL #1
FLORA VISTA, NEW MEXICO



| | |
|---|--------------------|
| Civil / Environmental Scientists & Engineers | |
| 612 E. MURRAY DR. | PH. (505) 327-1072 |
| FARMINGTON, NM 87401 | FAX (505) 327-1496 |
| PROJECT # 5114223 | FIGURE: 5 |

POTENTIOMETRIC SURFACE MAP
12/27/04
CONOCOPHILLIPS - NELL HALL #1
FLORA VISTA, NEW MEXICO

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
Fax: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

August 04, 2004

John Hagstrom
Souder, Miller & Associates
612 E. Murray Dr
Farmington, NM 87401

TEL: 505-325-1556
FAX 505-327-1496

RE: ConocoPhillips/5114223

Order No.: 0407046

Dear John Hagstrom:

iiná bá received 4 samples on 7/19/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:



Judy Moore
Laboratory Director

Edwina Aspaas
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420
Off: (505) 368-4065

iiná bá

Date: 04-Aug-04

CLIENT: Souder, Miller & Associates
Project: ConocoPhillips/5114223
Lab Order: 0407046

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.



COVER LETTER

July 29, 2004

Judy Moore
iina ba, Ltd
612 E. Murray Drive
Farmington, NM 87401
TEL: (505) 327-1072
FAX (505) 327-1496

RE: 0407046

Order No.: 0407216

Dear Judy Moore:

Hall Environmental Analysis Laboratory received 4 samples on 7/21/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 29-Jul-04

CLIENT: iina ba, Ltd**Client Sample ID:** 0407046-001A**Lab Order:** 0407216**Tag Number:****Project:** 0407046**Collection Date:** 7/19/2004 11:15:00 AM**Lab ID:** 0407216-01A**MW4****Matrix:** AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|---------------|------------|-------------|--------------|-----------|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| Xylenes, Total | ND | 0.50 | | µg/L | 1 | 7/27/2004 9:58:37 PM |
| Sum: 4-Bromofluorobenzene | 96.2 | 74-118 | | %REC | 1 | 7/27/2004 9:58:37 PM |

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 29-Jul-04

CLIENT: iina ba, Ltd

Client Sample ID: 0407046-002A

Lab Order: 0407216

Tag Number:

Project: 0407046

Collection Date: 7/19/2004 10:30:00 AM

Lab ID: 0407216-02A

MW5

Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

EPA METHOD 8021B: VOLATILES

Analyst: NSB

| | | | | | |
|--------------------------------|------|--------|------|---|-----------------------|
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| Benzene | ND | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| Toluene | 0.55 | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| Xylenes, Total | 0.72 | 0.50 | µg/L | 1 | 7/27/2004 10:29:06 PM |
| Surr. 4-Bromofluorobenzene | 102 | 74-118 | %REC | 1 | 7/27/2004 10:29:06 PM |

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 2 of 4

Hall Environmental Analysis Laboratory

Date: 29-Jul-04

CLIENT: iina ba, Ltd
Lab Order: 0407216
Project: 0407046
Lab ID: 0407216-03A

MW6

Client Sample ID: 0407046-003A
Tag Number:
Collection Date: 7/19/2004 11:45:00 AM
Matrix: AQUEOUS

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| Ethylbenzene | 0.98 | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| 1,2,4-Trimethylbenzene | 0.83 | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| 1,3,5-Trimethylbenzene | 0.52 | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| Xylenes, Total | 2.8 | 0.50 | | µg/L | 1 | 7/28/2004 11:21:33 AM |
| Surr. 4-Bromofluorobenzene | 95.3 | 74.118 | | %REC | 1 | 7/28/2004 11:21:33 AM |

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory**Date: 29-Jul-04**

CLIENT: iina ba, Ltd
Lab Order: 0407216
Project: 0407046
Lab ID: 0407216-04A

Client Sample ID: 0407046-004A
Tag Number:
Collection Date: 7/19/2004 8:20:00 AM
Matrix: AQUEOUS

TRIP BLANK

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|---------------|------------|-------------|--------------|-----------|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 2.5 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| Xylenes, Total | ND | 0.50 | | µg/L | 1 | 7/28/2004 11:52:08 AM |
| Surrogate: 4-Bromofluorobenzene | 98.7 | 74-118 | | %REC | 1 | 7/28/2004 11:52:08 AM |

Analyst: NSB

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Hall Environmental Analysis Laboratory
4901 Hawkins NE Suite D
Albuquerque, NM 87109

TEL: (505) 345-3975
FAX: (505) 345-4107

Acct #:

20-Jul-04

20-Jul-04

| Requested Tests | | | |
|-----------------|--------|-----------------|-------------|
| Sample ID | Matrix | Collection Date | Bottle Type |
| SW0021B | | | |

| | | | | | | | |
|--------------|---------|-----------------------|--------|-----------|--|--|------------|
| 0407046-001A | Aqueous | 7/19/2004 11:15:00 AM | VOAHCL | 2 X 40 ml | | | 04072116-1 |
| 0407046-002A | Aqueous | 7/19/2004 10:30:00 AM | VOAHCL | 1C | | | -2 |
| 0407046-003A | Aqueous | 7/19/2004 11:45:00 AM | VOAHCL | 1C | | | -3 |
| 0407046-004A | Aqueous | 7/19/2004 8:20:00 AM | VOAHCL | 1C | | | -4 |

Comments: Please analyze four (4) aqueous samples for 8021.

✓ ✓ /

| | | | |
|------------------|------------|------------|-----------------|
| Relinquished by: | Jane Arnes | Date/Time: | 7/20/04 5:15 pm |
| Received by: | John Hause | Date/Time: | 7/21/04 0837 |

iiná bá

Sample Receipt Checklist

Client Name: **SMA1005**

Date and Time Received:

7/19/2004

Work Order Number: **0407046**

Received by:

ADM

Checklist completed by:

Signature

Jane Hagstrom

7/19/04
Date

Reviewed by:

Initials

Jern

7/19/04
Date

Matrix:

Carrier name: John Hagstrom

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments:

Corrective Action:

iná bá

612 E. Murray Drive
Farmington, NM 87401
(505) 327-1072

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Hall Environmental Analysis Laboratory
4901 Hawkins NE Suite D
Albuquerque, NM 87109

TEL: (505) 345-3975
FAX: (505) 345-4107

Acct #:

20-Jul-04

| Sample ID | Matrix | Collection Date | Bottle Type | Requested Tests | | | |
|--------------|---------|-----------------------|-------------|-----------------|--|--|--|
| | | | | SW8021B | | | |
| 0407046-001A | Aqueous | 7/19/2004 11:15:00 AM | VOAHCL | 1 | | | |
| 0407046-002A | Aqueous | 7/19/2004 10:30:00 AM | VOAHCL | 1 | | | |
| 0407046-003A | Aqueous | 7/19/2004 11:45:00 AM | VOAHCL | 1 | | | |
| 0407046-004A | Aqueous | 7/19/2004 8:20:00 AM | VOAHCL | 1 | | | |

Comments:

Please analyze four (4) aqueous samples for 8021.

| | |
|--------------------------------------|----------------------------|
| Relinquished by: <i>Jane Arneson</i> | Date/Time: 7/20/04 3:15 pm |
| Received by: _____ | Date/Time: _____ |
| Relinquished by: _____ | Date/Time: _____ |
| Received by: _____ | Date/Time: _____ |

viná bá
 (for life's sake)

CHAIN OF CUSTODY RECORD

3748

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 Phone: (505) 327-1072 • Fax: (505) 327-1496

Date 7/19/04

Page 1 of 1

| DEPOD RESULTS TO: | | SEND INVOICE TO: | | PO No.: | | Job No.: 511422 | | |
|---|--------------|-------------------|---------------|--------------|----------------------|--------------------|---------------|--------------|
| Report to: | J. Hae Stroo | Company: | | Name: | | Address: | | |
| Address: | | City: | | Company: | | Address: | | |
| Phone: | Fax: | Email: | | City: | | | | |
| Turnaround Time: | | Sample Integrity: | | Subcontract | | Analysis Requested | | |
| 10 days (normal) | X | Intact | | Yes | | | | |
| 24-48 hours (100%) | | | | No | | | | |
| 3-5 days (50%) | | On ice | | | | | | |
| Sampling Location: <i>Well House Concessions</i> | | | | | | | | |
| Sample Identification | | Sample Date | Time | Matrix | Pres. | Lab ID | | |
| MW 4 | | 7/19/04 | 11:15 | H2O | KCL | 2 | X | 0407046-001A |
| MW 5 | | | 1630 | | | 2 | X | 0024 |
| MW 6 | | | 1145 | | | 2 | X | 0034 |
| Thir Bank | | | 0530 | | | 2 | X | 0044 |
| Comments: | | | | | | | | |
| Relinquished by: | | Date/Time: | 7/19/04 12:15 | Received by: | <i>James Aguirre</i> | Date/Time: | 7/19/04 12:15 | |
| Relinquished by: | | Date/Time: | | Received by: | | Date/Time: | | |
| Relinquished by: | | Date/Time: | | Received by: | | Date/Time: | | |

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Shiprock, NM 87420

Off: (505) 368-4065

November 17, 2004

Reid Allan
Seuder, Miller & Associates
612 E. Murray Dr
Farmington, NM 87401

TEL: 505-325-1556
FAX 505-327-1496

RE: Conoco/Phillips - Nell Hall/5114223

Order No.: 0410082

Dear Reid Allan:

iiná bá received 4 samples on 10/27/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:

Judy Moore
Laboratory Director

Edwina Aspaas
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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Shiprock, NM 87420

Off: (505) 368-4065

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Date: 17-Nov-04

CLIENT: Souder, Miller & Associates
Project: Conoco/Phillips - Nell Hall/5114223
Lab Order: 0410082

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111, May 1994.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

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ANALYTICAL REPORT

Date: 17-Nov-04

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223
Lab ID: 0410082-001A

Client Sample Info: Nell Hall
Client Sample ID: MW-5
Collection Date: 10/27/2004 2:50:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 11/9/2004 |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Toluene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Surr: 1,4-Difluorobenzene | 109 | 87-124 | | %REC | 1 | 11/9/2004 |
| Surr: 4-Bromochlorobenzene | 105 | 75-139 | | %REC | 1 | 11/9/2004 |
| Surr: Fluorobenzene | 109 | 86-119 | | %REC | 1 | 11/9/2004 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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ANALYTICAL REPORT

Date: 17-Nov-04

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223
Lab ID: 0410082-002A

Client Sample Info: Nell Hall
Client Sample ID: MW-4
Collection Date: 10/27/2004 3:25:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | 11 | 5.0 | | µg/L | 10 | 11/9/2004 |
| Ethylbenzene | 21 | 5.0 | | µg/L | 10 | 11/9/2004 |
| m,p-Xylene | 120 | 10 | | µg/L | 10 | 11/9/2004 |
| o-Xylene | 10 | 5.0 | | µg/L | 10 | 11/9/2004 |
| Toluene | 8.0 | 5.0 | | µg/L | 10 | 11/9/2004 |
| Surr: 1,4-Difluorobenzene | 109 | 87-124 | | %REC | 10 | 11/9/2004 |
| Surr: 4-Bromochlorobenzene | 104 | 75-139 | | %REC | 10 | 11/9/2004 |
| Surr: Fluorobenzene | 108 | 86-119 | | %REC | 10 | 11/9/2004 |

| | | |
|--------------------|---|---|
| Qualifiers: | ND - Not Detected at the Practical Quantitation Limit | S - Spike Recovery outside accepted recovery limits |
| | J - Analyte detected below Practical Quantitation Limit | R - RPD outside accepted precision limits |
| | B - Analyte detected in the associated Method Blank | E - Value above Upper Quantitation Limit - UQL |
| | H - Parameter exceeded Maximum Allowable Holding Time | |

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Shiprock, NM 87420

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ANALYTICAL REPORT

Date: 17-Nov-04

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223
Lab ID: 0410082-003A

Client Sample Info: Nell Hall
Client Sample ID: MW-6
Collection Date: 10/27/2004 3:55:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| | | SW8021B | | | | Analyst: JEM |
| Benzene | 0.4 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Ethybenzene | 0.5 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| m,p-Xylene | 1.9 | 1.0 | | µg/L | 1 | 11/9/2004 |
| o-Xylene | 0.2 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Toluene | 0.3 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Surr: 1,4-Difluorobenzene | 110 | 87-124 | | %REC | 1 | 11/9/2004 |
| Surr: 4-Bromochlorobenzene | 103 | 75-139 | | %REC | 1 | 11/9/2004 |
| Surr: Fluorobenzene | 108 | 86-119 | | %REC | 1 | 11/9/2004 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 3 of 4

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Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 17-Nov-04

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223
Lab ID: 0410082-004A

Client Sample Info: Nell Hall
Client Sample ID: Trip/Field Blank
Collection Date: 10/27/2004 4:10:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | 0 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Ethylbenzene | 0.1 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| m,p-Xylene | 0.4 | 1.0 | J | µg/L | 1 | 11/9/2004 |
| o-Xylene | 0 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Toluene | 0.3 | 0.5 | J | µg/L | 1 | 11/9/2004 |
| Benzene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Toluene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 11/9/2004 |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 11/9/2004 |
| Surr: 1,4-Difluorobenzene | 109 | 87-124 | | %REC | 1 | 11/9/2004 |
| Surr: 4-Bromochlorobenzene | 104 | 75-139 | | %REC | 1 | 11/9/2004 |
| Surr: Fluorobenzene | 107 | 86-119 | | %REC | 1 | 11/9/2004 |
| Surr: Fluorobenzene | 0 | 86-119 | S | %REC | 1 | 11/9/2004 |
| Surr: 1,4-Difluorobenzene | 0 | 87-124 | S | %REC | 1 | 11/9/2004 |
| Surr: 4-Bromochlorobenzene | 0 | 75-139 | S | %REC | 1 | 11/9/2004 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 4 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

imá bá

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223

Date: 17-Nov-04

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

| Sample ID | MB_041109 | SampType: MBLK | TestCode: BTEX_W | Units: µg/L | Prep Date: | Run ID: GC-1_041109A | | | | | | |
|----------------------------|-----------|-----------------|------------------|-------------|----------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | zzzzz | Batch ID: R6210 | TestNo: SW8021B | | Analysis Date: | 11/9/2004 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | | ND | 1.0 | | | | | | | | | |
| o-Xylene | | ND | 0.50 | | | | | | | | | |
| Toluene | | 0.0736 | 0.50 | | | | | | | | | |
| Surr: 1,4-Difluorobenzene | | 109.5 | 0 | 100 | 0 | 109 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 105.2 | 0 | 100 | 0 | 105 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 108.1 | 0 | 100 | 0 | 108 | 86 | 119 | 0 | 0 | 0 | |

| Sample ID | LCS1_041109 | SampType: LCS | TestCode: BTEX_W | Units: µg/L | Prep Date: | Run ID: GC-1_041109A | | | | | | |
|----------------------------|-------------|-----------------|------------------|-------------|----------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | zzzzz | Batch ID: R6210 | TestNo: SW8021B | | Analysis Date: | 11/9/2004 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 18.66 | 0.50 | 20 | 0 | 93.3 | 85 | 115 | 0 | 0 | 0 | |
| Ethylbenzene | | 18.86 | 0.50 | 20 | 0 | 94.3 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 37.45 | 1.0 | 40 | 0 | 93.6 | 85 | 115 | 0 | 0 | 0 | |
| o-Xylene | | 19.03 | 0.50 | 20 | 0 | 95.1 | 85 | 115 | 0 | 0 | 0 | |
| Toluene | | 18.83 | 0.50 | 20 | 0.0736 | 93.8 | 85 | 115 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 107.5 | 0 | 100 | 0 | 108 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 108 | 0 | 100 | 0 | 108 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 107.5 | 0 | 100 | 0 | 108 | 86 | 119 | 0 | 0 | 0 | |

| Sample ID | 0411006-001BMS | SampType: MS | TestCode: BTEX_W | Units: µg/L | Prep Date: | Run ID: GC-1_041109A | | | | | | |
|--------------|----------------|-----------------|------------------|-------------|----------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | zzzzz | Batch ID: R6210 | TestNo: SW8021B | | Analysis Date: | 11/9/2004 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 176.9 | 2.5 | 200 | 0 | 88.5 | 81 | 116 | 0 | 0 | 0 | |
| Ethylbenzene | | 180.5 | 2.5 | 200 | 0 | 90.3 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 359.5 | 5.0 | 400 | 0 | 89.9 | 84 | 117 | 0 | 0 | 0 | |

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: Conoco/Phillips - Nell Hall/5114223

ANALYTICAL QC SUMMARY REPORT

TestCode: **BTEX_W**

| Sample ID | 0411006-001BMS | SampType: | MS | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | | Run ID: | GC-1_041109A | |
|----------------------------|-----------------|-----------|-------|-----------|-------------|--------|----------|----------------|-------------|---------|--------------|------|
| Client ID: | ZZZZZ | Batch ID: | R6210 | TestNo: | SW8021B | | | Analysis Date: | 11/9/2004 | SeqNo: | 87984 | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| o-Xylene | | 183.8 | 2.5 | 200 | 0 | 91.9 | 84 | 113 | 0 | 0 | 0 | |
| Toluene | | 180.3 | 2.5 | 200 | 0 | 90.2 | 88 | 110 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 535.5 | 0 | 500 | 0 | 107 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 513.4 | 0 | 500 | 0 | 103 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 532.5 | 0 | 500 | 0 | 106 | 86 | 119 | 0 | 0 | 0 | |
| Sample ID | 0411006-001BMSD | SampType: | MSD | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | | Run ID: | GC-1_041109A | |
| Client ID: | ZZZZZ | Batch ID: | R6210 | TestNo: | SW8021B | | | Analysis Date: | 11/9/2004 | SeqNo: | 87985 | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 180.8 | 2.5 | 200 | 0 | 90.4 | 78 | 111 | 176.9 | 2.16 | 7 | |
| Ethylbenzene | | 185.3 | 2.5 | 200 | 0 | 92.6 | 82 | 111 | 180.5 | 2.60 | 6.9 | |
| m,p-Xylene | | 369.3 | 5.0 | 400 | 0 | 92.3 | 80 | 113 | 359.5 | 2.70 | 6.8 | |
| o-Xylene | | 188.1 | 2.5 | 200 | 0 | 94.1 | 83 | 110 | 183.8 | 2.35 | 6.4 | |
| Toluene | | 184.8 | 2.5 | 200 | 0 | 92.4 | 84 | 110 | 180.3 | 2.41 | 6.3 | |
| Surr: 1,4-Difluorobenzene | | 537.1 | 0 | 500 | 0 | 107 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 513.5 | 0 | 500 | 0 | 103 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 532.2 | 0 | 500 | 0 | 106 | 86 | 119 | 0 | 0 | 0 | |
| Sample ID | CCV1_041109 | SampType: | CCV | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | | Run ID: | GC-1_041109A | |
| Client ID: | ZZZZZ | Batch ID: | R6210 | TestNo: | SW8021B | | | Analysis Date: | 11/9/2004 | SeqNo: | 87977 | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 18.07 | 0.50 | 20 | 0 | 90.4 | 85 | 115 | 0 | 0 | 0 | |
| Ethylbenzene | | 18.26 | 0.50 | 20 | 0 | 91.3 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 36.23 | 1.0 | 40 | 0 | 90.6 | 85 | 115 | 0 | 0 | 0 | |
| o-Xylene | | 18.45 | 0.50 | 20 | 0 | 92.3 | 85 | 115 | 0 | 0 | 0 | |
| Toluene | | 18.27 | 0.50 | 20 | 0 | 91.3 | 85 | 115 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 108.4 | 0 | 100 | 0 | 108 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 106.9 | 0 | 100 | 0 | 107 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 107.1 | 0 | 100 | 0 | 107 | 86 | 119 | 0 | 0 | 0 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates
Work Order: 0410082
Project: ConocoPhillips - Nell Hall/5114223

ANALYTICAL QC SUMMARY REPORT

TestCode: **BTEX_W**

| Sample ID | SampType: | CCV | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | Run ID: GC-1_041109A | | | |
|----------------------------|-----------|-----------|-----------|-------------|---------|----------|----------------|----------------------|------|----------|------|
| Client ID: | | Batch ID: | R6210 | TestNo: | SW8021B | | Analysis Date: | 11/9/2004 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 37.4 | 0.50 | 40 | 0 | 93.5 | 85 | 115 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 37.9 | 0.50 | 40 | 0 | 94.8 | 85 | 115 | 0 | 0 | 0 | 0 |
| m,p-Xylene | 75.8 | 1.0 | 80 | 0 | 94.8 | 85 | 115 | 0 | 0 | 0 | 0 |
| o-Xylene | 38.7 | 0.50 | 40 | 0 | 96.7 | 85 | 115 | 0 | 0 | 0 | 0 |
| Toluene | 37.75 | 0.50 | 40 | 0 | 94.4 | 85 | 115 | 0 | 0 | 0 | 0 |
| Surr: 1,4-Difluorobenzene | 108.1 | 0 | 100 | 0 | 108 | 87 | 124 | 0 | 0 | 0 | 0 |
| Surr: 4-Bromochlorobenzene | 108.9 | 0 | 100 | 0 | 109 | 75 | 139 | 0 | 0 | 0 | 0 |
| Surr: Fluorobenzene | 107.5 | 0 | 100 | 0 | 107 | 86 | 119 | 0 | 0 | 0 | 0 |
| Sample ID | SampType: | CCV | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | Run ID: GC-1_041109A | | | |
| Client ID: | | Batch ID: | R6210 | TestNo: | SW8021B | | Analysis Date: | 11/9/2004 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 37.29 | 0.50 | 40 | 0 | 93.2 | 85 | 115 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 37.8 | 0.50 | 40 | 0 | 94.5 | 85 | 115 | 0 | 0 | 0 | 0 |
| m,p-Xylene | 75.04 | 1.0 | 80 | 0 | 93.8 | 85 | 115 | 0 | 0 | 0 | 0 |
| o-Xylene | 38.43 | 0.50 | 40 | 0 | 96.1 | 85 | 115 | 0 | 0 | 0 | 0 |
| Toluene | 37.74 | 0.50 | 40 | 0 | 94.4 | 85 | 115 | 0 | 0 | 0 | 0 |
| Surr: 1,4-Difluorobenzene | 108.2 | 0 | 100 | 0 | 108 | 87 | 124 | 0 | 0 | 0 | 0 |
| Surr: 4-Bromochlorobenzene | 103.6 | 0 | 100 | 0 | 104 | 75 | 139 | 0 | 0 | 0 | 0 |
| Surr: Fluorobenzene | 106.3 | 0 | 100 | 0 | 106 | 86 | 119 | 0 | 0 | 0 | 0 |
| Sample ID | SampType: | CCV | TestCode: | BTEX_W | Units: | µg/L | Prep Date: | Run ID: GC-1_041109A | | | |
| Client ID: | | Batch ID: | R6210 | TestNo: | SW8021B | | Analysis Date: | 11/9/2004 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 36.86 | 0.50 | 40 | 0 | 92.2 | 85 | 115 | 0 | 0 | 0 | 0 |
| Ethylbenzene | 37.28 | 0.50 | 40 | 0 | 93.2 | 85 | 115 | 0 | 0 | 0 | 0 |
| m,p-Xylene | 74.22 | 1.0 | 80 | 0 | 92.8 | 85 | 115 | 0 | 0 | 0 | 0 |
| o-Xylene | 37.89 | 0.50 | 40 | 0 | 94.7 | 85 | 115 | 0 | 0 | 0 | 0 |
| Toluene | 37.17 | 0.50 | 40 | 0 | 92.9 | 85 | 115 | 0 | 0 | 0 | 0 |

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
Page 3 of 4

CLIENT: Sonder, Miller & Associates
Work Order: 0410082
Project: ConocoPhillips - Nell Hall/5114223

ANALYTICAL QC SUMMARY REPORT

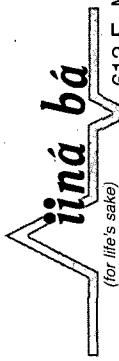
TestCode: BTEX_W

| Sample ID | SampType | CCV | TestCode | BTEX_W | Units: µg/L | Prep Date: | Run ID: GC-1_041109A | | | | | |
|----------------------------|----------|-----------|----------|-----------|-------------|----------------|----------------------|-----------|-------------|-------|----------|------|
| Client ID: | | Batch ID: | R6210 | Testing | SW8021B | Analysis Date: | 11/9/2004 | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %6RPD | RPDLimit | Qual |
| Surr: 1,4-Difluorobenzene | | 107.3 | 0 | 100 | 0 | 107 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 109.6 | 0 | 100 | 0 | 110 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 107.1 | 0 | 100 | 0 | 107 | 86 | 119 | 0 | 0 | 0 | |
| Sample ID | SampType | CCV | TestCode | BTEX_W | Units: µg/L | Prep Date: | Run ID: GC-1_041109A | | | | | |
| Client ID: | | Batch ID: | R6210 | Testing | SW8021B | Analysis Date: | 11/9/2004 | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %6RPD | RPDLimit | Qual |
| Benzene | | 35.82 | 0.50 | 40 | 0 | 89.5 | 85 | 115 | 0 | 0 | 0 | |
| Ethylbenzene | | 36.36 | 0.50 | 40 | 0 | 90.9 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 72.71 | 1.0 | 80 | 0 | 90.9 | 85 | 115 | 0 | 0 | 0 | |
| o-Xylene | | 37.05 | 0.50 | 40 | 0 | 92.6 | 85 | 115 | 0 | 0 | 0 | |
| Toluene | | 36.38 | 0.50 | 40 | 0 | 91 | 85 | 115 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 107 | 0 | 100 | 0 | 107 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 104 | 0 | 100 | 0 | 104 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 105.8 | 0 | 100 | 0 | 106 | 86 | 119 | 0 | 0 | 0 | |

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
Page 4 of 4



CHAIN OF CUSTODY RECORD

(for life's sake)
612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
Phone: (505) 327-1072 • Fax: (505) 327-1496

| REPORT | | RESULTS TO: | | INVOICE TO: | | CONTAINERS: | | SAMPLE | | LAB ID | |
|-------------------------------------|-----------------------------|-----------------------------|---------------------------|-------------|----------|-------------|--|--------|----------|--------|-------------|
| Report to: | Reid Allan | Name: | Reid Allan | Company: | | Address: | | Date: | 10/27/04 | Page | 1 |
| Company: | SMA | PO No.: | | Job No.: | 51142243 | | | of | 1 | of | 1 |
| Address: | 612 E Murray Dr | | | | | | | | | | |
| City: | Farmington NM | | | | | | | | | | |
| Phone: | 325-5567 | Fax: | 327-1496 | Email: | | | | | | | |
| Turnaround Time: | X | Sample Integrity: | | Subcontract | | | | | | | |
| 10 days (normal) | | Intact: | X | Yes | | | | | | | |
| 24-48 hours (100%) | | 5°C | | | | | | | | | |
| 3-5 days (50%) | | On Ice | X | No | X | | | | | | |
| Sampling Location: | Conoco Phillips / Nell Hall | | | | | | | | | | |
| Sample Identification | | Date | Time | Matrix | Pres. | | | | | | |
| MW-5 | 10/27/04 | 1450 | Water | HCl | 3 | X | | | | | 0410B82-001 |
| MW-4 | 10/27/04 | 1525 | water | HCl | 3 | X | | | | | -002 |
| MW-6 | 10/27/04 | 1555 | water | HCl | 3 | X | | | | | -003 |
| Trip / Field Blank | 10/27/04 | 11610 | water | HCl | 3 | X | | | | | -004 |
| Relinquished by: <u>Walter Rose</u> | Date/Time: 10/27/04 16:50 | Received by: <u>J. Mann</u> | Date/Time: 10/27/04 16:50 | | | | | | | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | | | | | | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | | | | | | | |
| Comments: | | | | | | | | | | | |

iiná bá

Sample Receipt Checklist

Client Name: **SMA1005**

Date and Time Received: **10/27/2004**

Work Order Number: **0410082**

Received by: **JEM**

Checklist completed by:

J Moore
Signature

10/27/04
Date

Reviewed by:

epa
Initials

11/1/04
Date

Matrix:

Carrier name: Walter Gage

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
Fax: (505) 327-1496

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

January 06, 2005

John Hagstrom
Souder, Miller & Associates
612 E. Murray Dr
Farmington, NM 87401

TEL: 505-325-1556
FAX 505-327-1496

RE: ConocoPhillips/Nell Hall 5114223

Order No.: 0412065

Dear John Hagstrom:

iiná bá received 3 samples on 12/27/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

This is a revised report (for report dated January 3, 2005) for samples received 12/15/2004.
This report shows a correction on the sample collection date for MW4.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: Edwina Aspaas

Edwina Aspaas
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 06-Jan-05

CLIENT: Souder, Miller & Associates
Project: ConocoPhillips/Nell Hall 5114223
Lab Order: 0412065

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.
Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111, May 1994.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

No trip blank was received in the lab.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

ANALYTICAL REPORT



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 06-Jan-05

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223
Lab ID: 0412065-001A

Client Sample Info: ConocoPhillips/Nell Hall
Client Sample ID: MW4
Collection Date: 12/27/2004 12:35:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | ND | 2.5 | | µg/L | 5 | 12/29/2004 |
| Toluene | 0.5 | 2.5 | J | µg/L | 5 | 12/29/2004 |
| Ethylbenzene | 0.5 | 2.5 | J | µg/L | 5 | 12/29/2004 |
| m,p-Xylene | ND | 5.0 | | µg/L | 5 | 12/29/2004 |
| o-Xylene | ND | 2.5 | | µg/L | 5 | 12/29/2004 |
| Surr: Fluorobenzene | 105 | 86-119 | | %REC | 5 | 12/29/2004 |
| Surr: 1,4-Difluorobenzene | 107 | 87-124 | | %REC | 5 | 12/29/2004 |
| Surr: 4-Bromochlorobenzene | 105 | 75-139 | | %REC | 5 | 12/29/2004 |

Qualifiers:
ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

ANALYTICAL REPORT



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 06-Jan-05

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223
Lab ID: 0412065-002A

Client Sample Info: ConocoPhillips/Nell Hall
Client Sample ID: MW5
Collection Date: 12/27/2004 11:30:00 AM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| Toluene | 0.2 | 0.5 | J | µg/L | 1 | 12/29/2004 |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 12/29/2004 |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| Surr: Fluorobenzene | 106 | 86-119 | | %REC | 1 | 12/29/2004 |
| Surr: 1,4-Difluorobenzene | 109 | 87-124 | | %REC | 1 | 12/29/2004 |
| Surr: 4-Bromochlorobenzene | 108 | 75-139 | | %REC | 1 | 12/29/2004 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072

FAX: (505) 327-1496

ANALYTICAL REPORT



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 06-Jan-05

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223
Lab ID: 0412065-003A

Client Sample Info: ConocoPhillips/Nell Hall
Client Sample ID: MW6
Collection Date: 12/27/2004 1:30:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | 45 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Toluene | 6.8 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Ethylbenzene | 14 | 0.5 | | µg/L | 1 | 12/29/2004 |
| m,p-Xylene | 70 | 1.0 | | µg/L | 1 | 12/29/2004 |
| o-Xylene | 1.7 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Surr: Fluorobenzene | 102 | 86-119 | | %REC | 1 | 12/29/2004 |
| Surr: 1,4-Difluorobenzene | 102 | 87-124 | | %REC | 1 | 12/29/2004 |
| Surr: 4-Bromochlorobenzene | 105 | 75-139 | | %REC | 1 | 12/29/2004 |

Qualifiers:
ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B ~ Analyte detected in the associated Method Blank
H ~ Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

ANALYTICAL REPORT



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 03-Jan-05

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223
Lab ID: 0412065-002A

Client Sample Info: ConocoPhillips/Nell Hall
Client Sample ID: MW5
Collection Date: 12/27/2004 11:30:00 AM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| Benzene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| Toluene | 0.2 | 0.5 | J | µg/L | 1 | 12/29/2004 |
| Ethylbenzene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 12/29/2004 |
| o-Xylene | ND | 0.5 | | µg/L | 1 | 12/29/2004 |
| Surr: Fluorobenzene | 106 | 86-119 | | %REC | 1 | 12/29/2004 |
| Surr: 1,4-Difluorobenzene | 109 | 87-124 | | %REC | 1 | 12/29/2004 |
| Surr: 4-Bromochlorobenzene | 108 | 75-139 | | %REC | 1 | 12/29/2004 |

Qualifiers:
ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072

FAX: (505) 327-1496

ANALYTICAL REPORT



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 03-Jan-05

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223
Lab ID: 0412065-003A

Client Sample Info: ConocoPhillips/Nell Hall
Client Sample ID: MW6
Collection Date: 12/27/2004 1:30:00 PM
Matrix: AQUEOUS

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|----------------|----|---------------|
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| | | | | SW8021B | | Analyst: JEM |
| Benzene | 45 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Toluene | 6.8 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Ethylbenzene | 14 | 0.5 | | µg/L | 1 | 12/29/2004 |
| m,p-Xylene | 70 | 1.0 | | µg/L | 1 | 12/29/2004 |
| o-Xylene | 1.7 | 0.5 | | µg/L | 1 | 12/29/2004 |
| Surrogate: Fluorobenzene | 102 | 86-119 | | %REC | 1 | 12/29/2004 |
| Surrogate: 1,4-Difluorobenzene | 102 | 87-124 | | %REC | 1 | 12/29/2004 |
| Surrogate: 4-Bromochlorobenzene | 105 | 75-139 | | %REC | 1 | 12/29/2004 |

Qualifiers:
ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223

Date: 03-Jun-05

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

| Sample ID | MB_041229A | SampType: MBLK | TestCode: BTEX_W | Units: µg/L | | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | |
|----------------------------|----------------|-----------------|------------------|-------------|-------------|---------------------------|----------------------|-----------|-------------|------|----------|------|
| Client ID: | zzzzz | Batch ID: R6365 | TestNo: SW8021B | | | Analysis Date: 12/29/2004 | SeqNo: 90191 | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 0.2205 | 0.50 | | | | | | | | | J |
| Toluene | | 0.2261 | 0.50 | | | | | | | | | J |
| Ethylbenzene | | 0.1837 | 0.50 | | | | | | | | | J |
| m,p-Xylene | | 0.2899 | 1.0 | | | | | | | | | J |
| o-Xylene | | 0.2493 | 0.50 | | | | | | | | | J |
| Surr: Fluorobenzene | | 105.8 | 0 | | | | 106 | 86 | 119 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 108.3 | 0 | | | | 100 | 87 | 124 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 109.7 | 0 | | | | 100 | 110 | 139 | 0 | 0 | |
| Sample ID | LCS_041229A | SampType: LCS | TestCode: BTEX_W | Units: µg/L | | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | |
| Client ID: | zzzzz | Batch ID: R6365 | TestNo: SW8021B | | | Analysis Date: 12/29/2004 | SeqNo: 90192 | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 40.16 | 0.50 | 40 | 0.2205 | 99.8 | 85 | 115 | 0 | 0 | | |
| Toluene | | 41.21 | 0.50 | 40 | 0.2261 | 102 | 85 | 115 | 0 | 0 | | |
| Ethylbenzene | | 40.68 | 0.50 | 40 | 0.1837 | 101 | 85 | 115 | 0 | 0 | | |
| m,p-Xylene | | 80.27 | 1.0 | 80 | 0.2899 | 100 | 85 | 115 | 0 | 0 | | |
| o-Xylene | | 41.66 | 0.50 | 40 | 0.2493 | 104 | 85 | 115 | 0 | 0 | | |
| Surr: Fluorobenzene | | 104.4 | 0 | | | | 100 | 104 | 86 | 119 | 0 | |
| Surr: 1,4-Difluorobenzene | | 105.6 | 0 | | | | 100 | 0 | 106 | 87 | 124 | 0 |
| Surr: 4-Bromochlorobenzene | | 111.5 | 0 | | | | 100 | 0 | 111 | 75 | 139 | 0 |
| Sample ID | 0412065-003AMS | SampType: MS | TestCode: BTEX_W | Units: µg/L | | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | |
| Client ID: | MW6 | Batch ID: R6365 | TestNo: SW8021B | | | Analysis Date: 12/29/2004 | SeqNo: 90199 | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 228.4 | 2.5 | 200 | 41.67 | 93.4 | 81 | 116 | 0 | 0 | 0 | |
| Toluene | | 200.7 | 2.5 | 200 | 7.752 | 96.5 | 88 | 110 | 0 | 0 | 0 | |
| Ethylbenzene | | 204.6 | 2.5 | 200 | 13.34 | 95.6 | 85 | 115 | 0 | 0 | 0 | |

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

| Sample ID | 0412065-003AMS | SampType: MS | TestCode: BTEX_W | Units: µg/L | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | | |
|----------------------------|----------------|-----------------|------------------|-------------|---------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | MW6 | Batch ID: R6365 | TestNo: SW8021B | | Analysis Date: 12/29/2004 | SeqNo: 90199 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| m,p-Xylene | | 442.8 | 5.0 | 400 | 63.67 | 94.8 | 84 | 117 | 0 | 0 | 0 | |
| o-Xylene | | 196.5 | 2.5 | 200 | 2.739 | 96.9 | 84 | 113 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 512.7 | 0 | 500 | 0 | 103 | 86 | 119 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 520.7 | 0 | 500 | 0 | 104 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 499.7 | 0 | 500 | 0 | 99.9 | 75 | 139 | 0 | 0 | 0 | |

| Sample ID | 0412065-003AMSD | SampType: MSD | TestCode: BTEX_W | Units: µg/L | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | | |
|----------------------------|-----------------|-----------------|------------------|-------------|---------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | MW6 | Batch ID: R6365 | TestNo: SW8021B | | Analysis Date: 12/29/2004 | SeqNo: 90200 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 239.9 | 2.5 | 200 | 41.67 | 99.1 | 78 | 111 | 228.4 | 4.91 | 7 | |
| Toluene | | 211.7 | 2.5 | 200 | 7.752 | 102 | 84 | 110 | 200.7 | 5.36 | 6.3 | |
| Ethylbenzene | | 216.9 | 2.5 | 200 | 13.34 | 102 | 82 | 111 | 204.6 | 5.84 | 6.9 | |
| m,p-Xylene | | 470 | 5.0 | 400 | 63.67 | 102 | 80 | 113 | 442.8 | 5.96 | 6.8 | |
| o-Xylene | | 202.6 | 2.5 | 200 | 2.739 | 100 | 83 | 110 | 196.5 | 3.08 | 6.4 | |
| Surr: Fluorobenzene | | 515.1 | 0 | 500 | 0 | 103 | 86 | 119 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 524.4 | 0 | 500 | 0 | 105 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 509.2 | 0 | 500 | 0 | 102 | 75 | 139 | 0 | 0 | 0 | |

| Sample ID | CCV1_041229A | SampType: CCV | TestCode: BTEX_W | Units: µg/L | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | | |
|----------------------------|--------------|-----------------|------------------|-------------|---------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | ZZZZZ | Batch ID: R6365 | TestNo: SW8021B | | Analysis Date: 12/29/2004 | SeqNo: 90201 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 39.17 | 0.50 | 40 | 0 | 97.9 | 85 | 115 | 0 | 0 | 0 | |
| Ethylbenzene | | 39.57 | 0.50 | 40 | 0 | 98.9 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 78.15 | 1.0 | 80 | 0 | 97.7 | 85 | 115 | 0 | 0 | 0 | |
| o-Xylene | | 40.68 | 0.50 | 40 | 0 | 102 | 85 | 115 | 0 | 0 | 0 | |
| Toluene | | 40.45 | 0.50 | 40 | 0 | 101 | 85 | 115 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 106.3 | 0 | 100 | 0 | 106 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 108.2 | 0 | 100 | 0 | 108 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 104.4 | 0 | 100 | 0 | 104 | 86 | 119 | 0 | 0 | 0 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates
Work Order: 0412065
Project: ConocoPhillips/Nell Hall 5114223

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

| Sample ID | CCV2_041229A | SampType: CCV | TestCode: BTEX_W | Units: µg/L | Prep Date: 12/29/2004 | Run ID: GC-1_041229A | | | | | | |
|----------------------------|--------------|-----------------|------------------|-------------|---------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: | zzzzz | Batch ID: R6365 | TestNo: SW8021B | | Analysis Date: 12/29/2004 | SeqNo: 90202 | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | | 21.42 | 0.50 | 20 | 0 | 107 | 85 | 115 | 0 | 0 | 0 | |
| Ethylbenzene | | 21.97 | 0.50 | 20 | 0 | 110 | 85 | 115 | 0 | 0 | 0 | |
| m,p-Xylene | | 43.3 | 1.0 | 40 | 0 | 108 | 85 | 115 | 0 | 0 | 0 | |
| o-Xylene | | 22.17 | 0.50 | 20 | 0 | 111 | 85 | 115 | 0 | 0 | 0 | |
| Toluene | | 21.73 | 0.50 | 20 | 0 | 109 | 85 | 115 | 0 | 0 | 0 | |
| Surr: 1,4-Difluorobenzene | | 107.3 | 0 | 100 | 0 | 107 | 87 | 124 | 0 | 0 | 0 | |
| Surr: 4-Bromochlorobenzene | | 102.8 | 0 | 100 | 0 | 103 | 75 | 139 | 0 | 0 | 0 | |
| Surr: Fluorobenzene | | 105.6 | 0 | 100 | 0 | 106 | 86 | 119 | 0 | 0 | 0 | |

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
Phone: (505) 327-1072 • Fax: (505) 327-1496

| REPORT | | RESULTS TO: | | SEND INVOICE TO: | | PO No.: Name: | | Job No.: Name: | | Page <u>1</u> of <u>1</u> | |
|-----------------------|--------------------------|------------------|--------------------------|------------------|------------------------------|------------------|--------------------------|-------------------|---------------|---------------------------|--------------------|
| Report to: | J. Haastrem | Company: | SMI | Address: | 612 E. Murray Dr. | City: | RAQonington | Phone: | Fax: | Email: | City: |
| Turnaround Time: | 10 days (normal) | Sample Integrity | Intact | 15°C | On Ice | Subcontract | Yes | No | X | | Analysis Requested |
| | 24-48 hours (100%) | | | | | | | | | | |
| | 3-5 days (50%) | | | | | | | | | | |
| Sampling Location: | Conoco Phillips Well 14a | | | | | | | | | | |
| Sample Identification | | Date | Time | Sample | Matrix | Pres. | CONTAINERS: | | Lab ID | | |
| MW4 | 1/27/04 | 1235 | H2O | 14a | 2 | X | | | 04/20/04 001A | | |
| MW5 | | 1130 | | | 1 | X | | | -002A | | |
| MW4 | | 1330 | | | 1 | X | | | -003A | | |
| TRIP BOWL | | | | | 14 | X | | | -004A | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Relinquished by: | <u>LL</u> | | Date/Time: 1/27/04 14:00 | | Received by: <u>J. Moore</u> | | Date/Time: 1/27/04 14:00 | | | | |
| Relinquished by: | <u>LL</u> | | Date/Time: | | Received by: | | Date/Time: | | | | |
| Relinquished by: | <u>LL</u> | | Date/Time: | | Received by: | | Date/Time: | | | | |
| Comments: | | | | | | | | | | | |

jiná bá

Sample Receipt Checklist

Client Name: **SMA1005**

Date and Time Received:

12/27/2004

Work Order Number: **0412065**

Received by:

JEM

Checklist completed by:

Signature

J. Mae

12/27/04

Date

Reviewed by:

Initials

JEM

12/28/04

Date

Matrix:

Carrier name: John Hagstrom

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input checked="" type="checkbox"/> | <i>Jim</i> |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Temp Blank was not received in Lab

Corrective Action: _____