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

| RE( | E | VE | D |
|-----|---|----|---|
|-----|---|----|---|

Form C-141 Revised October 10, 2003

OCI O I ZUO9 HOBBSOCD Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

| 1220 5. 51. 1141  |   | 41 <b>0</b> , 1010107505  |  | Sa   | inta Fe   | e, NM 875   | 05  |  |  |  |
|---|---|---|--|--|---|---|---|--|--|--|
|   |   | i i Martini i   | Rele   | ease Notific   | cation  | n and Co  | orrective A   | ction  |  |  |
|   |   |   |  | OP   | 'ERA'   | TOR   | X II  | nitial R   | eport  | X Final Report   |
|   |   | /Iomentum E   |  |  |   |   | ck Schmidt, c/o   |  | Energy H   | oldings, LLC   |
|   | Address: 5410 Bee Caves Road, Austin, TX 78746<br>Facility Name: State MTS No. 2  |   |  |  |   |   | No.: 512-329-87   | 700  |  |  |
| Facility Nat  | ne: State   | MTS No. 2   |  |  |   | Facility Typ  | e: Oil & Gas  |  |  | ·····  |
| Surface Ow  | ner: New  | Mexico  |  | Mineral C  | )wner:  | State of Ne   | w Mexico  |  | Lease N  | No.: N/A   |
|   |   |   |  |  |   | N OF REI  |   |  |  | 25-28141   |
| Unit LetterSectionTownshipRangeFeet from theNoE1019S35E1980   |   |   |  |  |   | South Line  | Feet from the 510   |  | Vest Line<br>VL                                      | County<br>Lea  |
|   |   | L   | atitude_   | N/AI   | Longitu   | 1deN/.  | A N   | MRP N  | 10.: IRP   | -09.10.2289  |
|   |   |   |  |  | URE   | OF RELI   |   |  |  |  |
|   |   | carbon & Proc   |  |  |   |   | Release: Unknow   |  |  | Recovered: None  |
| man-way entr  | rance on oil  | tank. Also, d   | ischarges  | r. Valves, lines ar<br>over time due to<br>quids around facil  |   |   | our of Occurrence<br>hknown   | e:   |  | Hour of Discovery:<br>ne 2009 0800 Hrs.  |
| Was Immedia   | ate Notice C  |   | Yes No   | Not Require  | d   | If YES, To<br>Larry John  |   |  |  |  |
| By Whom? C  | hervl Wink  | ler   |  |  |   | Date and H  | our: 5 August 20  | 09   |  |  |
| Was a Water   |   |   | Yes X  | No   |   |   | lume Impacting th   |  | course.  |  |
| If a Watercou   | irse was Im   | pacted, Descri  | be Fully.*   |  |   |   |   |  |  |  |
| Describe Cau  | se of Proble  | em and Remer  | lial Action  | N/A<br>1 Taken *   |   |   |   |  |  |  |
| contaminated<br>reportable con<br>Describe Area<br>Affected area<br>removal of ea<br>attached analy<br>preventing the | soils locate<br>ntaminant lo<br>a Affected a<br>s included t<br>ch unit fror<br>ytical result<br>e implemen   | ad in the area of<br>evels and deline<br>and Cleanup A<br>he pad around<br>n its operating<br>s.) and, then b<br>tation of a risk | of location<br>heation tar<br>ction Tak<br>the oil ta<br>position.<br>ackfilled v<br>c-based clo | a facilities were id<br>gets pursuant to P<br>den.*<br>nk, water tank and<br>Contaminated so<br>with clean soil pu | entified<br>NMOCD<br>d separa<br>bils were<br>rsuant to<br>rently, th | for removal t<br>requirements<br>tor. Spills we<br>excavated to<br>NMOCD ap | o disposal at Lea<br>s for excavation p<br>re delineated after<br>NMOCD standar<br>proval. Depth to g | Land Di-<br>urposes.<br>shut in<br>ds of 25<br>groundw | sposal. Sa<br>procedure:<br>0 mg/K or<br>ater in the | drocarbon and produced water<br>imples were taken to verify<br>s were executed and the<br>as directed by the Agency (See<br>area ranges from 15 to 25 feet,<br>and returned to their |
| NMOCD rul<br>releases whi<br>Report" does<br>that pose a th   | I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to<br>NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for<br>releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final<br>Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination<br>that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report<br>does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.<br>Signature: |   |  |  |   |   |   |  |  |  |
| Printed Nat   | ne: Dick S  | Schmidt   | <del></del>  |  |   | Approved b  | ENV ENGIN<br>y <del>District Supe</del>   |  | Seof   | Brey Lobenzy   |
| Title: Presi  | dent, Mor   | nentum Ene  | ergy Cor   | poration   |   | Approval Date   | : 10/01/0C  |  | xpiration I  | Date: —  |
| E-mail Add  | ress: dick  | schmidt@sb  | cglobal.   | net  | (   | Conditions of   | Approval:   |  |  | Attached   |
| Date: 28 S  |   |   |  | 512-329-8700   |   |   |   |  |  | NRP-09-10-2289   |
| Attach Addit  |   | ts If Necessa   |  | 83   |   |   |   |  |  |  |

## RECEIVED

OCT 0 1 2009

### HUBBSUCD

#### **Momentum Energy Corporation**

200 N. Lorainc, Suite 610 Midland, TX 79701 Phone: (432) 682-0595

#### Mr. Larry Johnson

Oil Conservation Division 1625 N. French Drive Hobbs, NM 88240

September 28, 2009

# RE: State MTS No. 2 Corrective Action Plan/Final Remediation Report (API No: 30-025-28141) U/L E S10 T19S, 198' FNL and 510' FWL NMOCD Spill Report No: \_\_\_\_\_\_

\_\_\_\_\_

Dear Mr. Johnson:

Momentum Energy Corporation (Momentum) herewith submits the following information regarding hydrocarbon and produced water contamination discovered on 25 June 2009 on the State MTS No. 2 drilling pad, during a field inspection associated with a property transaction. Momentum determined this was reportable because the discharged volume exceeded the New Mexico Oil Conservation Division (NMOCD) standards.

The moist to wet contaminated soils were identified around the oil tank, water tank, and separator, and then sampled within 6" to 8" of the surface for contaminant background levels to ascertain definitive contaminant soil concentrations of sodium chloride, TPH (DRO/GRO), and BTEX, as required by the NMOCD. Analytical results provided by Trace Analysis, Inc. showed soil contaminant levels which exceeded standards in all categories analyzed, such as: (1) soil chlorides up to 78,000 mg/Kg, (2) DRO up to 48,000 mg/Kg, (3) GRO up to 58.8 mg/Kg and the BTEX components of (4) benzene up to 8.95 mg/Kg, (5) toluene up to 13.2 mg/Kg, (6) ethyl benzene up to 2.27 mg/Kg and xylene up 5.80 mg/Kg. (Detailed sample analyticals are attached for your files.)

Discharged volumes of said contaminants also exceeded NMOCD's immediate reporting requirements for discharges greater than 25 barrels and mandatory reporting for discharges greater than 5 barrels. NMOCD's requirements were triggered for (1) immediate verbal reporting, (2) filing an Initial C-141 and (3) filing a Corrective Action Plan for NMOCD review and approval to formally execute the excavation and removal process of these materials to a disposal facility. When NMOCD was consulted regarding the aforementioned documents, none were on file nor were they found imaged on the New Mexico Oil

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Conservation Division's Web Site. Thus, the new owners of Momentum immediately began remediation in order to become compliant with the NMOCD standards and regulations.

Compliance was further complicated because of the shallow depth to groundwater in the area which ranges from 15 to 25 feet. This prevented the implementation of a risk-based closure option and exacerbated the probability of groundwater contamination due to the passage of time and frequency of previous release events. Therefore, a more extensive investigation to ascertain more accurately the probable discharge volumes for reporting requirements became necessary. Upon further delineation as to the depth of the contamination, it is estimated that the historical discharges exceeded an estimated 7,266 barrels over time. Unfortunately, it was not possible to accurately separate the targeted discharge that triggered this remediation from older spills since the subsurface had been saturated by the recent spill and was moist to wet depending on depth. However no groundwater contamination was found, principally because there was no groundwater evident within the excavated zones. The excavated depths were as follows: (1) oil tank area to 10.5', (2) water tank to 2.5' and the (3) separator area to 8'. At depth, the soil was dry.

Due to the situation, Momentum began infield operations before all of the paperwork could be filed but the NMOCD was intimately involved, allowing excavation to begin as soon as shut-in procedures were affected and equipment was relocated to the north side of the pad for temporary storage and restoration, when necessary. Contaminated soils were excavated to NMOCD standards for soil chlorides of equal to or less than 250 mg/K or as approved by the Agency. TPH and BTEX levels were taken to non-detect or as approved by the Agency. A total of 741 tons of contaminated soil was hauled to Lea Land Disposal and the excavated areas were backfilled with clean soil pursuant to NMOCD approval. Currently, facility tanks have been restored and returned to their operational positions.

Should you have questions, please phone (512-329-8700).

Sincerely,

Momentum Energy Corporation Dick Schmidt President Enclosures: Laboratory analytical

▶ Page 2

### **Summary Report**

Dick Schmidt Viejo Holding Company 5410 Bee Caves Road Austin, Tx 78746

Report Date: July 31, 2009

Work Order: 9072907

Project Location:MTS #2 Well SiteProject Name:MTS #2 Well Site Phase I Eval.Project Number:MTS #2

|        |                  |        | Date       | Time  | Date       |
|--------|------------------|--------|------------|-------|------------|
| Sample | Description      | Matrix | Taken      | Taken | Received   |
| 203934 | Tank N Side      | soil   | 2009-07-27 | 15:00 | 2009-07-29 |
| 203935 | Tank S Side      | soil   | 2009-07-27 | 14:45 | 2009-07-29 |
| 203936 | Loadline Side    | soil   | 2009-07-27 | 15:20 | 2009-07-29 |
| 203937 | Seperator N Side | soil   | 2009-07-27 | 15:40 | 2009-07-29 |
| 203938 | Seperator S Side | soil   | 2009-07-27 | 16:00 | 2009-07-29 |

|                           | BTEX    |         |              |         | MTBE    | TPH DRO | TPH GRO        |
|---------------------------|---------|---------|--------------|---------|---------|---------|----------------|
|                           | Benzene | Toluene | Ethylbenzene | Xylene  | MTBE    | DRO     | $\mathbf{GRO}$ |
| Sample - Field Code       | (mg/Kg) | (mg/Kg) | (mg/Kg)      | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg)        |
| 203934 - Tank N Side      | < 0.100 | 0.105   | < 0.100      | 0.673   |         | 25800   | 251            |
| 203935 - Tank S Side      | 8.95    | 13.2    | 2.27         | 5.80    |         | 48200   | 230            |
| 203936 - Loadline Side    | 0.348   | 1.15    | < 0.100      | 0.964   |         | 29400   | 55.5           |
| 203937 - Seperator N Side | < 0.100 | < 0.100 | < 0.100      | <0.100  |         | 16200   | 37.8           |
| 203938 - Seperator S Side | < 0.100 | < 0.100 | < 0.100      | < 0.100 | i.      | 20300   | 58.8           |

#### Sample: 203934 - Tank N Side

| Param    | Elag | Result | Units | $\mathbf{RL}$ |
|----------|------|--------|-------|---------------|
| Chloride |      | 4260   | mg/Kg | 3.25          |

#### Sample: 203935 - Tank S Side

| Param    | Flag | Result | Units | $\operatorname{RL}$ |
|----------|------|--------|-------|---------------------|
| Chloride |      | 4400   | mg/Kg | 3.25                |

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

| Report Date: July 31, 2009 |                            | Work Order: 9072907 | Page  | Number: 2 of 2 |
|----------------------------|----------------------------|---------------------|-------|----------------|
| Sample: 203936             | - Loadline Side            |                     |       |                |
| Param                      | $\mathbf{Flag}$            | Result              | Units | $\mathbf{RL}$  |
| Chloride                   |                            | 2220                | mg/Kg | 3.25           |
|                            |                            |                     |       |                |
| Sample: 203937             | - Seperator N Side         |                     |       |                |
| Sample: 203937<br>Param    | - Seperator N Side<br>Flag | Result              | Units | $\mathbf{RL}$  |

#### Sample: 203938 - Seperator S Side

| Param    | Flag | Result | Units | $\mathbf{RL}$ |
|----------|------|--------|-------|---------------|
| Chloride |      | 78000  | mg/Kg | 10.0          |

|          | MULLINAT   | RACEANA                                      | LYSIS   | , INC.   |   |              |           |
|----------|--|--|---|--|---|--------------|-----------|
|          | 5701 Aberdeen Avenue, Suite 9<br>200 East Sunsei Road, Suite 2<br>5002 Basin Street, Suite A1<br>6015 Harns Parkway, Suite 710 | Midland, Texas 79703<br>FtWorth, Texas 76132 | .800 • 378 • 1296<br>388 • 588 • 3443<br>traceonalysis.com; | 806 • 794 • 1296<br>915 • 585 • 3443<br>432 • 689 • 6301<br>817 • 201 • 5260 | FAX,806 • 794 • 1298<br>FAX:915 • 585 • 4944<br>FAX:42 • 689 • 6313 |              |           |
|          |  | Cer  | tificati  | ons  |   |              |           |
| WB       | <b>ENC:</b> 237019   | HUB:<br>NCTRCA                               | 175243974<br>WFWB38   | 3100-86536<br>444Y0909   | DBE:  | VN 20657     |           |
|          |  | NELAP  | Certifi   | ications   | 5   |              |           |
| Lubbock: | T104704219-08-TX<br>LELAP-02003  | El Paso:                                     | T104704<br>LELAP-   | 221-08-TX<br>02002   | Midlar  | nd: T1047043 | 392-08-TX |

## Analytical and Quality Control Report

Dick Schmidt Viejo Holding Company 5410 Bee Caves Road Austin, Tx, 78746

Report Date: July 31, 2009

Work Order: 9072907

Project Location:MTS #2 Well SiteProject Name:MTS #2 Well Site Phase l Eval.Project Number:MTS #2

Kansas E-10317

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

|        |                  |        | Date       | Time  | Date       |
|--------|------------------|--------|------------|-------|------------|
| Sample | Description      | Matrix | Taken      | Taken | Received   |
| 203934 | Tank N Side      | soil   | 2009-07-27 | 15:00 | 2009-07-29 |
| 203935 | Tank S Side      | soil   | 2009-07-27 | 14:45 | 2009-07-29 |
| 203936 | Loadline Side    | soil   | 2009-07-27 | 15:20 | 2009-07-29 |
| 203937 | Seperator N Side | soil   | 2009-07-27 | 15:40 | 2009-07-29 |
| 203938 | Seperator S Side | soil   | 2009-07-27 | 16:00 | 2009-07-29 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

Page 2 of 22

### **Case Narrative**

Samples for project MTS #2 Well Site Phase l Eval. were received by TraceAnalysis, Inc. on 2009-07-29 and assigned to work order 9072907. Samples for work order 9072907 were received intact at a temperature of 25.8 deg. C (no ice).

Samples were analyzed for the following tests using their respective methods.

|                      |              | Prep  | Prep                | QC    | Analysis            |
|----------------------|--------------|-------|---------------------|-------|---------------------|
| Test                 | Method       | Batch | Date                | Batch | Date                |
| BTEX                 | S 8021B      | 52849 | 2009-07-29 at 15:46 | 61952 | 2009-07-29 at 15:46 |
| BTEX                 | S 8021B      | 52901 | 2009-07-30 at 15:53 | 62016 | 2009-07-30 at 15:53 |
| Chloride (IC)        | E 300.0      | 52927 | 2009-07-30 at 14:13 | 62046 | 2009-07-31 at 01:53 |
| Chloride (Titration) | SM 4500-Cl B | 52852 | 2009-07-29 at 16:00 | 61956 | 2009-07-29 at 16:22 |
| TPH DRO              | Mod. 8015B   | 52856 | 2009-07-29 at 15:00 | 61960 | 2009-07-29 at 19:00 |
| TPH GRO              | S 8015B      | 52849 | 2009-07-29 at 15:46 | 61953 | 2009-07-29 at 15:46 |
| TPH GRO              | S 8015B      | 52901 | 2009-07-30 at 15:53 | 62017 | 2009-07-30 at 15:53 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9072907 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## **Analytical Report**

#### Sample: 203934 - Tank N Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>61952<br>52849 |      |      | Analytical M<br>Date Analyz<br>Sample Prep | zed:  | S 8021B<br>2009-07-29<br>2009-07-29 |        | Prep Meth<br>Analyzed<br>Prepared I | By: ER        |
|--|-----------------------------------|------|------|--|-------|-------------------------------------|--------|-------------------------------------|---------------|
|  |                                   |      |      | $\mathbf{RL}$                              |       |                                     |        |                                     |               |
| Parameter  |                                   | Flag |      | $\mathbf{Result}$                          |       | Units                               | D      | ilution                             | $\mathbf{RL}$ |
| Benzene  |                                   | 1    |      | < 0.100                                    |       | mg/Kg                               |        | 5                                   | 0.0200        |
| Toluene  |                                   |      |      | 0.105                                      |       | mg/Kg                               |        | 5                                   | 0.0200        |
| Ethylbenzene   | 1                                 |      |      | < 0.100                                    |       | mg/Kg                               |        | 5                                   | 0.0200        |
| Xylene   |                                   |      |      | 0.673                                      |       | mg/Kg                               |        | 5                                   | 0.0200        |
|  |                                   |      |      |  |       |                                     | Spike  | Percent                             | Recovery      |
| Surrogate  |                                   |      | Flag | $\mathbf{Result}$                          | Units | Dilution                            | Amount | Recovery                            | Limits        |
| Trifluorotolue                                       | ene (TFT)                         |      |      | 1.66                                       | mg/Kg | 5                                   | 2.00   | 83                                  | 71.8 - 112    |
| 4-Bromofluor   | obenzene (4-B                     | FB)  | 2    | 2.68                                       | mg/Kg | 5                                   | 2.00   | 134                                 | 72.8 - 115    |

#### Sample: 203934 - Tank N Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>Chloride (Titration)<br>61956<br>52852 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-07-29<br>2009-07-29 | Prep Method:<br>Analyzed By:<br>Prepared By: | KV            |
|--|---|---|--|--|---------------|
|  |   | $\operatorname{RL}$   |  |  |               |
| Parameter  | Flag  | Result  | Units                                    | Dilution                                     | $\mathbf{RL}$ |
| Chloride   |   | 4260  | mg/Kg                                    | 100  | 3.25          |

#### Sample: 203934 - Tank N Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH DRO<br>61960<br>52856 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | Mod. 8015B<br>2009-07-29<br>2009-07-29 | Prep Method:<br>Analyzed By:<br>Prepared By: | N/A           |
|--|--------------------------------------|---|--|--|---------------|
|  |                                      | $\mathbf{RL}$   |  |  |               |
| Parameter  | Flag                                 | Result  | Units                                  | Dilution                                     | $\mathbf{RL}$ |
| DRO  |                                      | 25800   | mg/Kg                                  | 10   | 50.0          |

<sup>&</sup>lt;sup>1</sup>Sample ran at dilution due to hydrocarbons with a retention time greater than xylene. <sup>2</sup>High surrogate recovery due to peak interference.

| Report Date: July 31, 2009<br>MTS #2  |  |        |                                      | Work Order: 9072907<br>MTS #2 Well Site Phase I Eval. |                                     |                 |                                  | Page Number: 5 of 22<br>MTS #2 Well Site |  |
|---------------------------------------|--|--------|--------------------------------------|---|-------------------------------------|-----------------|----------------------------------|--|--|
| Surrogate                             | Flag   | Result | Units                                | Dilu  | ition                               | Spike<br>Amount | Percent<br>Recovery              | Recovery<br>Limits                       |  |
| n-Triacontane                         |  | 1180   | mg/Kg                                |   | 0                                   | 100             | 1180                             | 46.6 - 172                               |  |
| Laboratory:<br>Analysis:<br>QC Batch: | <b>934 - Tank N Si</b><br>Lubbock<br>TPH GRO<br>61953<br>52849 | de     | Analytical<br>Date Anal<br>Sample Pr |   | S 8015B<br>2009-07-29<br>2009-07-29 |                 | Prep Met<br>Analyzed<br>Prepared | By: ER                                   |  |
|                                       |  |        | RL                                   |   | <b>TT</b> •.                        |                 |                                  | DI                                       |  |
| $\frac{\text{Parameter}}{\text{GRO}}$ | Flag   |        | Result<br>251                        |   | Units<br>mg/Kg                      |                 | Dilution<br>5                    | RL                                       |  |
|                                       |  |        |                                      |   | <u> </u>                            | Spike           | Percent                          | Recovery                                 |  |
| Surrogate                             |  | Flag   | Result                               | $\mathbf{Units}$                                      | Dilution                            |                 |                                  | Limits                                   |  |
| Trifluorotolue                        |  |        | 1.75                                 | mg/Kg   | 5                                   | 2.00            | 88                               | 86.9 - 113                               |  |
| 4-Bromofluoro                         | benzene (4-BFB)  | 4      | 7.11                                 | mg/Kg   | 5                                   | 2.00            | 356                              | 56.2 - 130                               |  |

#### Sample: 203935 - Tank S Side

| Laboratory:LubbockAnalysis:BTEXQC Batch:61952Prep Batch:52849 |      | Analytical<br>Date Analy<br>Sam <u>p</u> le Pre | zed:             | S 8021B<br>2009-07-29<br>2009-07-29 |        | Prep Metho<br>Analyzed B<br>Prepared B | y: ER         |
|---|------|---|------------------|-------------------------------------|--------|--|---------------|
|   |      | $\operatorname{RL}$                             |                  |                                     |        |  |               |
| Parameter Flag  |      | $\mathbf{Result}$                               |                  | Units                               | Dil    | lution                                 | $\mathbf{RL}$ |
| Benzene   |      | 8.95  |                  | mg/Kg                               |        | 10                                     | 0.0200        |
| Toluene   |      | 13.2  |                  | mg/Kg                               |        | 10                                     | 0.0200        |
| Ethylbenzene  |      | 2.27  |                  | mg/Kg                               |        | 10                                     | 0.0200        |
| Xylene  |      | 5.80  |                  | mg/Kg                               |        | 10                                     | 0.0200        |
|   |      |   |                  |                                     | Spike  | Percent                                | Recovery      |
| Surrogate   | Flag | $\mathbf{Result}$                               | $\mathbf{Units}$ | Dilution                            | Amount | Recovery                               | Limits        |
| Trifluorotoluene (TFT)  |      | 1.60  | mg/Kg            | 10                                  | 2.00   | 80                                     | 71.8 - 112    |
| 4-Bromofluorobenzene (4-BFB)                                  | 5    | 2.47  | mg/Kg            | 10                                  | 2.00   | 124                                    | 72.8 - 115    |

#### Sample: 203935 - Tank S Side

| Laboratory: | Lubbock              |                     |              |              |      |
|-------------|----------------------|---------------------|--------------|--------------|------|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A  |
| QC Batch:   | 61956                | Date Analyzed:      | 2009-07-29   | Analyzed By: | Κ̈́V |
| Prep Batch: | 52852                | Sample Preparation: | 2009-07-29   | Prepared By: | KV   |

<sup>3</sup>High surrogate recovery due to peak interference. <sup>4</sup>High surrogate recovery due to peak interference. <sup>5</sup>High surrogate recovery due to peak interference.

|           |      | $\mathbf{RL}$ |       |          |      |
|-----------|------|---------------|-------|----------|------|
| Parameter | Flag | Result        | Units | Dilution | RL   |
| Chloride  |      | 4400          | mg/Kg | 100      | 3.25 |

#### Sample: 203935 - Tank S Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH DRO<br>61960<br>52856 |        | Analytical M<br>Date Analyze<br>Sample Prepa | ed: 2009-0 |        |          | fethod: N/A<br>ed By:<br>ed By: |
|--|--------------------------------------|--------|--|------------|--------|----------|---------------------------------|
|  |                                      |        | $\mathbf{RL}$                                |            |        |          |                                 |
| Parameter  | Fla                                  | g      | Result                                       | Ur         | nits   | Dilution | $\mathbf{RL}$                   |
| DRO  |                                      |        | 48200  | mg/        | Kg     | 40       | 50.0                            |
|  |                                      |        |  |            | Spike  | Percent  | Recovery                        |
| Surrogate  | Flag                                 | Result | Units  | Dilution   | Amount | Recovery | Limits                          |
| n-Triacontan   | e 6                                  | 2980   | mg/Kg  | 40         | 100    | 2980     | 46.6 - 172                      |

#### Sample: 203935 - Tank S Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>61953<br>52849 |      | Analytical<br>Date Anal<br>Sample Pr |                                       | S 8015B<br>2009-07-29<br>2009-07-29 |        | Prep Meth<br>Analyzed<br>Prepared | By: ER        |
|--|--------------------------------------|------|--------------------------------------|---------------------------------------|-------------------------------------|--------|-----------------------------------|---------------|
|  |                                      |      | $\mathbf{RL}$                        |                                       |                                     |        |                                   |               |
| Parameter  | Flag                                 |      | $\mathbf{Result}$                    |                                       | Units                               | D      | ilution                           | $\mathbf{RL}$ |
| GRO  |                                      |      | 230                                  | · · · · · · · · · · · · · · · · · · · | mg/Kg                               |        | 10                                | 2.00          |
|  |                                      |      |                                      |                                       |                                     | Spike  | Percent                           | Recovery      |
| Surrogate  |                                      | Flag | $\mathbf{Result}$                    | Units                                 | Dilution                            | Amount | Recovery                          | Limits        |
| Trifluorotolue                                       | ene (TFT)                            | 7    | 1.04                                 | mg/Kg                                 | 10                                  | 2.00   | 52                                | 86.9 - 113    |
| 4-Bromofluor   | obenzene (4-BFB)                     | 8    | 3.36                                 | mg/Kg                                 | 10                                  | 2.00   | 168                               | 56.2 - 130    |

#### Sample: 203936 - Loadline Side

| Laboratory: | Lubbock |                     |            |              |               |
|-------------|---------|---------------------|------------|--------------|---------------|
| Analysis:   | BTEX    | Analytical Method:  | S 8021B    | Prep Method: | S 5035        |
| QC Batch:   | 61952   | Date Analyzed:      | 2009-07-29 | Analyzed By: | $\mathbf{ER}$ |
| Prep Batch: | 52849   | Sample Preparation: | 2009-07-29 | Prepared By: | $\mathbf{ER}$ |

<sup>6</sup>High surrogate recovery due to peak interference.

<sup>7</sup>Surrogate recovery out due to dilution caused by hydrocarbons in the sample.

<sup>8</sup>High surrogate recovery due to peak interference.

| Report Date: July 31, 2009<br>MTS #2 |      | Work Order: 9072907<br>MTS #2 Well Site Phase l Eval. |       |          | Page Number: 7 of 22<br>MTS #2 Well Site |          |            |
|--------------------------------------|------|---|-------|----------|--|----------|------------|
| Parameter Flag                       |      | RL<br>Result  |       | Units    | Di                                       | lution   | RL         |
| Benzene Tag                          |      | 0.348   |       | mg/Kg    |  | 5        | 0.0200     |
| Toluene                              |      | 1.15  |       | mg/Kg    |  | 5        | 0.0200     |
| Ethylbenzene                         |      | < 0.100   |       | mg/Kg    |  | 5        | 0.0200     |
| Xylene                               |      | 0.964   |       | mg/Kg    |  | 5        | 0.0200     |
|                                      |      |   |       |          | Spike                                    | Percent  | Recovery   |
| Surrogate                            | Flag | Result  | Units | Dilution | Amount                                   | Recovery | Limits     |
| Trifluorotoluene (TFT)               |      | 1.74  | mg/Kg | 5        | 2.00                                     | 87       | 71.8 - 112 |
| 4-Bromofluorobenzene (4-BFB)         | 9    | 2.34  | mg/Kg | 5        | 2.00                                     | 117      | 72.8 - 115 |

#### Sample: 203936 - Loadline Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>Chloride (Titration)<br>61956<br>52852 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-07-29<br>2009-07-29 | Prep Method:<br>Analyzed By:<br>Prepared By: | кv            |
|--|---|---|--|--|---------------|
| Parameter  | Flag  | RL<br>Result  | Units                                    | Dilution                                     | $\mathbf{RL}$ |
| Chloride   | U   | 2220  | mg/Kg                                    | 100  | 3.25          |

#### Sample: 203936 - Loadline Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH DRO<br>61960<br>52856 |        | Analytical M<br>Date Analyze<br>Sample Prepa | ed: 2009 | . 8015B<br>-07-29<br>-07-29 | Analyz              | Method: N/A<br>zed By:<br>red By: |
|--|--------------------------------------|--------|--|----------|-----------------------------|---------------------|-----------------------------------|
| Parameter  | Flo                                  | -      | $\operatorname{RL}$ Result                   | T        | Inits                       | Dilution            | DI                                |
|  | Fla                                  | 5      |  |          |                             |                     | RL                                |
| DRO  |                                      |        | 29400  | mg       | /Kg                         | 20                  | 50.0                              |
| Surrogate  | Flag                                 | Result | Units  | Dilution | Spike<br>Amount             | Percent<br>Recovery | Recovery<br>Limits                |
| n-Triacontane  |                                      | 2630   | mg/Kg  | 20       | 100                         | 2630                | 46.6 - 172                        |
| n- macontaix   |                                      | 2000   |  |          | 100                         | 2000                | 40.0 - 172                        |

#### Sample: 203936 - Loadline Side

| Laboratory:<br>Analysis: | Lubbock<br>TPH GRO | Analytical Method:                    | S 8015B    | Prep Method:                 | S 5035        |
|--------------------------|--------------------|---------------------------------------|------------|------------------------------|---------------|
| QC Batch:<br>Prep Batch: | 61953              | Date Analyzed:<br>Sample Preparation: | 2009-07-29 | Analyzed By:<br>Prepared By: | $\mathbf{ER}$ |

<sup>9</sup>High surrogate recovery due to peak interference. <sup>10</sup>High surrogate recovery due to peak interference.

| Report Date: July<br>MTS #2              |   | Work Order: 9072907<br>MTS #2 Well Site Phase I Eval. |              |                |          | Page Number: 8 of 2<br>MTS #2 Well Site                  |                     |                          |  |
|--|---|---|--------------|----------------|----------|--|---------------------|--------------------------|--|
| Parameter Flag                           |   |   | RL<br>Result |                | Units    | Dilution   |                     | RL                       |  |
| GRO                                      |   |   | 55.5         |                | mg/Kg    | ······································                   | 5                   | 2.00                     |  |
| Surrogate                                |   | Flag  | Result       | Units          | Dilution | Spike<br>Amount  | Percent<br>Recovery | Recovery<br>Limits       |  |
| Trifluorotoluene (1<br>4-Bromofluorobenz | , | 11  | 1.49 $2.22$  | mg/Kg<br>mg/Kg | 5<br>5   | $\begin{array}{ccc} 2.00 & 74 \\ 2.00 & 111 \end{array}$ |                     | 86.9 - 113<br>56.2 - 130 |  |

#### Sample: 203937 - Seperator N Side

|                    |               |      | Analytical M<br>Date Analyz<br>Sample Prej | zed:  | S 8021B<br>2009-07-30<br>2009-07-30 |        | Prep Meth<br>Analyzed I<br>Prepared I | By: ER              |
|--------------------|---------------|------|--|-------|-------------------------------------|--------|---------------------------------------|---------------------|
|                    |               | ,    | $\mathbf{RL}$                              |       |                                     |        |                                       |                     |
| Parameter          | Flag          |      | Result                                     |       | Units                               | Di     | lution                                | $\operatorname{RL}$ |
| Benzene            | 12            |      | < 0.100                                    |       | mg/Kg                               |        | 5                                     | 0.0200              |
| Toluene            |               |      | < 0.100                                    |       | mg/Kg                               |        | 5                                     | 0.0200              |
| Ethylbenzene       |               |      | < 0.100                                    |       | mg/Kg                               |        | 5                                     | 0.0200              |
| Xylene             |               |      | < 0.100                                    |       | mg/Kg                               |        | 5                                     | 0.0200              |
|                    |               |      |  |       |                                     | Spike  | Percent                               | Recovery            |
| Surrogate          |               | Flag | $\mathbf{Result}$                          | Units | Dilution                            | Amount | Recovery                              | Limits              |
| Trifluorotoluene ( | (TFT)         |      | 1.78                                       | mg/Kg | 5                                   | 2.00   | 89                                    | 71.8 - 112          |
| 4-Bromofluorober   | nzene (4-BFB) |      | 1.79                                       | mg/Kg | 5                                   | 2.00   | 90                                    | 72.8 - 115          |

#### Sample: 203937 - Seperator N Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>Chloride (IC)<br>62046<br>52927 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | E 300.0<br>2009-07-31<br>2009-07-30 | Prep Method:<br>Analyzed By:<br>Prepared By: | SS            |
|--|--|---|-------------------------------------|--|---------------|
|  |  | RL  |                                     |  |               |
| Parameter  | Flag                                       | Result  | Units                               | Dilution                                     | $\mathbf{RL}$ |
| Chloride   |  | 58300   | mg/Kg                               | 500  | 10.0          |

#### Sample: 203937 - Seperator N Side

| Laboratory: | Lubbock |                     |            |                  |
|-------------|---------|---------------------|------------|------------------|
| Analysis:   | TPH DRO | Analytical Method:  | Mod. 8015B | Prep Method: N/A |
| QC Batch:   | 61960   | Date Analyzed:      | 2009-07-29 | Analyzed By:     |
| Prep Batch: | 52856   | Sample Preparation: | 2009-07-29 | Prepared By:     |

<sup>11</sup>Surrogate recovery out due to dilution caused by hydrocarbons in the sample. <sup>12</sup>Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

| Report Date: July 31, 2009<br>MTS #2 | Work Order: 9072907<br>MTS #2 Well Site Phase l Eval. | Page Number: 9 of 22<br>MTS #2 Well Site |  |  |
|--------------------------------------|---|--|--|--|
|                                      |   | · · · · · · · · · · · · · · · · · · ·    |  |  |
|                                      | RL  |  |  |  |

| Parameter     | Fla  | g      | $\mathbf{Result}$ | Uni      | its             | Dilution            | $\operatorname{RL}$        |
|---------------|------|--------|-------------------|----------|-----------------|---------------------|----------------------------|
| DRO           |      |        | 16200             | mg/I     | Kg              | 20                  | 50.0                       |
| Surrogate     | Flag | Result | Units             | Dilution | Spike<br>Amount | Percent<br>Recovery | Recover <u>y</u><br>Limits |
| n-Triacontane | 13   | 1570   | mg/Kg             | 20       | 100             | 1570                | 46.6 - 172                 |

#### Sample: 203937 - Seperator N Side

| Laboratory:   | Lubbock           |      |                   |             |                  |        |            |                       |
|---------------|-------------------|------|-------------------|-------------|------------------|--------|------------|-----------------------|
| Analysis:     | TPH GRO           |      | Analytical        | Method:     | S 8015B          |        | Prep Meth  | nod: S 5035           |
| QC Batch:     | 62017             |      | Date Anal         | yzed:       | 2009-07-30       |        | Analyzed   | By: ER                |
| Prep Batch:   | 52901             |      | Sample Pr         | reparation: | 2009-07-30       |        | Prepared 1 | $B\underline{y}$ : ER |
|               |                   |      | $\mathbf{RL}$     |             |                  |        |            |                       |
| Parameter     | Flag              |      | $\mathbf{Result}$ |             | $\mathbf{Units}$ | D      | ilution    | $\operatorname{RL}$   |
| GRO           |                   |      | 37.8              |             | mg/Kg            |        | 5          | 2.00                  |
|               |                   |      |                   |             |                  | Spike  | Percent    | Recovery              |
| Surrogate     |                   | Flag | Result            | Units       | Dilution         | Amount | Recovery   | Limits                |
| Trifluorotolu | ene (TFT)         |      | 1.91              | mg/Kg       | 5                | 2.00   | 96         | 86.9 - 113            |
| 4-Bromofluor  | cobenzene (4-BFB) |      | 2.05              | mg/Kg       | 5                | 2.00   | 102        | 56.2 - 130            |

#### Sample: 203938 - Seperator S Side

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>62016<br>52901 |      |      | Analytical I<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-07-30<br>2009-07-30 |                 | Prep Me<br>Analyzeo<br>Prepareo | l By: | S 5035<br>ER<br>ER        |
|--|-----------------------------------|------|------|--|-------|-------------------------------------|-----------------|---------------------------------|-------|---------------------------|
|  |                                   |      |      | $\mathbf{RL}$                            |       |                                     |                 |                                 |       |                           |
| Parameter  |                                   | Flag |      | Result                                   |       | Units                               | Di              | lution                          |       | $\mathbf{RL}$             |
| Benzene  |                                   | 14   |      | < 0.100                                  |       | mg/Kg                               |                 | 5                               |       | 0.0200                    |
| Toluene  |                                   |      |      | < 0.100                                  |       | mg/Kg                               |                 | 5                               |       | 0.0200                    |
| Ethylbenzene   |                                   |      |      | < 0.100                                  |       | mg/Kg                               |                 | 5                               |       | 0.0200                    |
| Xylene   |                                   |      |      | < 0.100                                  |       | mg/Kg                               |                 | 5                               |       | 0.0200                    |
| Surrogate  |                                   |      | Flag | Result                                   | Units | Dilution                            | Spike<br>Amount | Percent<br>Recovery             |       | ecover <u>y</u><br>Limits |
| Trifluorotolue                                       | ne (TFT)                          |      | 15   | 1.42                                     | mg/Kg | 5                                   | 2.00            | 71/                             |       | .8 - 112                  |
|  | -                                 |      |      | 1.10                                     |       | 0                                   | 2.00            | 112                             |       | <i>ued</i>                |

<sup>13</sup>High surrogate recovery due to peak interference.
<sup>14</sup>Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.
<sup>15</sup>Surrogate recovery out due to dilution caused by hydrocarbons in the sample.

| Report Date: July 31, 2009<br>MTS #2                               |   |        |   | rk Order: 90<br>Well Site P           | Page Number: 10 of 22<br>MTS #2 Well Site |                 |                            |        |                          |
|--|---|--------|---|---------------------------------------|---|-----------------|----------------------------|--------|--------------------------|
| sample contin  | nued  |        |   |                                       |   | Spike           | Percent                    | Rec    | overy                    |
| Surrogate  |   | Flag   | Result  | Units                                 | Dilution                                  | Amount          | Recovery                   |        | mits                     |
| 4-Bromofluor   | obenzene (4-BFB)  |        | 1.66  | mg/Kg                                 | 5   | 2.00            | 83                         | 72.8   | - 115                    |
| Sample: 20   | 3938 - Seperator  | S Side |   |                                       |   |                 |                            |        |                          |
| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch:               | Lubbock<br>Chloride (IC)<br>62046<br>52927                      |        | Date An   | al Method:<br>alyzed:<br>Preparation: | E 300.0<br>2009-07-3<br>2009-07-3         |                 | Prep M<br>Analyz<br>Prepar | ed By: | N/A<br>SS<br>SS          |
|  |   |        | $\operatorname{RL}$                             |                                       |   |                 |                            |        |                          |
| Parameter  | Flag  |        | Result  |                                       | Units                                     |                 | Dilution                   |        | RL                       |
| Chloride   |   |        | 78000   |                                       | mg/Kg                                     |                 | 500                        |        | 10.0                     |
| Sample: 20<br>Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | <b>3938 - Seperator</b><br>Lubbock<br>TPH DRO<br>61960<br>52856 | S Side | Analytical<br>Date Analy<br>Sam <u>p</u> le Pre | zed:                                  | Mod. 8015E<br>2009-07-29<br>2009-07-29    | 3               | Prep M<br>Analyz<br>Prepar |        | N/A                      |
| Demonster  | Fl  |        | $\operatorname{RL}$ Result                      |                                       | T I a i t a                               |                 | Dilution                   |        | DI                       |
| Parameter<br>DRO   | Flag  |        | 20300   |                                       | Units<br>mg/Kg                            |                 | Dilution 20                |        | $\frac{\text{RL}}{50.0}$ |
| Surrogate  | Flag  | Result | Units   | Dilut                                 | <u> </u>                                  | Spike<br>Amount | Percent<br>Recovery        | Li     | overy<br>mits            |
| n-Triacontan   | e <sup>16</sup>   | 1780   | mg/Kg   | 20                                    |   | 100             | 1780                       | 46.6   | - 172                    |
| Sample: 20   | 3938 - Seperator  | S Side |   |                                       |   |                 |                            |        |                          |

.

|           |                 | $\mathbf{RL}$ |       |          |               |
|-----------|-----------------|---------------|-------|----------|---------------|
| Parameter | $\mathbf{Flag}$ | Result        | Units | Dilution | $\mathbf{RL}$ |
| GRO       |                 | 58.8          | mg/Kg | 5        | 2.00          |

<sup>16</sup>High surrogate recovery due to peak interference.

| Report Date: July 31, 2009<br>MTS #2 |                  | ork Order: 9<br>2 Well Site F |               |                      |                 | ber: 11 of 22<br>#2 Well Site |                     |
|--------------------------------------|------------------|-------------------------------|---------------|----------------------|-----------------|-------------------------------|---------------------|
| Surrogate                            | Flag             | Result                        | Units         | Dilution             | Spike<br>Amount | Percent<br>Recovery           | Recovery<br>Limits  |
| Trifluorotoluene (TFT)               | 17               | 1.56                          | mg/Kg         | 5                    | 2.00            | 78                            | 86.9 - 113          |
| 4-Bromofluorobenzene (4-BFB)         |                  | 1.39                          | mg/Kg         | 5                    | 2.00            | 70                            | 56.2 - 130          |
| Method Blank (1) QC B                | latch: 61952     |                               |               |                      |                 |                               |                     |
| QC Batch: 61952<br>Prep Batch: 52849 |                  | Date Ana<br>QC Prep           |               | 09-07-29<br>09-07-29 |                 | Analyz<br>Prepar              |                     |
| Deveryor                             |                  |                               | MD            |                      | TT. */          |                               | DI                  |
| ParameterBenzene                     | Flag             |                               | Resul         |                      | Unit<br>mg/F    |                               | RL<br>0.02          |
| Toluene                              |                  |                               | < 0.0050      |                      | mg/F            |                               | $0.02 \\ 0.02$      |
| Ethylbenzene                         |                  |                               | < 0.0063      |                      | mg/F            |                               | 0.02                |
| Xylene                               |                  |                               | < 0.0067      |                      | mg/k            |                               | 0.02                |
|                                      |                  |                               |               |                      |                 | -                             |                     |
| Surrogate                            | Flag             | Result                        | Units         | Dilution             | Spike<br>Amount | Percent<br>Recovery           | Recovery<br>Limits  |
| Trifluorotoluene (TFT)               |                  | 1.86                          | mg/Kg         | 1                    | 2.00            | 93                            | 71.8 - 112          |
| 4-Bromofluorobenzene (4-BFB)         |                  | 1.80                          | mg/Kg         | 1                    | 2.00            | 90                            | 72.8 - 115          |
| Method Blank (1) QC B                | atch: 61953      |                               |               |                      |                 |                               |                     |
| QC Batch: 61953                      |                  | Date Ana                      | alvzed: 20    | 09-07-29             |                 | Analyz                        | ed By: ER           |
| Prep Batch: 52849                    |                  |                               | aration: 20   |                      |                 | Prepar                        | •                   |
|                                      |                  | • •                           | MDI           |                      |                 | -                             | ·                   |
| Parameter                            | Flag             |                               | MDL<br>Result |                      | Units           | 1                             | $\operatorname{RL}$ |
| GRO                                  | 1 105            |                               | <0.403        |                      | mg/K            |                               | 2                   |
|                                      |                  |                               |               |                      |                 | -                             |                     |
| Surrogate                            | $\mathbf{Flag}$  | Result                        | Units         | Dilution             | Spike<br>Amount | Percent<br>Recovery           | Recovery<br>Limits  |
| Trifluorotoluene (TFT)               | *. • • • • • • • | 1.99                          | mg/Kg         | 1                    | 2.00            | 100                           | 86.9 - 113          |
| 4-Bromofluorobenzene (4-BFB)         |                  | 1.66                          | mg/Kg         | 1                    | 2.00            | 83                            | 56.2 - 130          |
| Method Blank (1) QC B                | atch: 61956      |                               |               |                      |                 |                               |                     |

| QC Batch:   | 61956 | Date Analyzed:  | 2009-07-29 | Analyzed By: | KV |
|-------------|-------|-----------------|------------|--------------|----|
| Prep Batch: | 52852 | QC Preparation: | 2009-07-29 | Prepared By: | KV |

<sup>17</sup>Surrogate recovery out due to dilution caused by hydrocarbons in the sample.

| Report Date: July 3<br>MTS #2        | 1, 2009               |                      | ork Order:<br>2 Well Site | 9072907<br>Phase l Eva | 1.              |                     | umber: 12 of 22<br>TS #2 Well Site |
|--------------------------------------|-----------------------|----------------------|---------------------------|------------------------|-----------------|---------------------|------------------------------------|
| _                                    |                       |                      | MDL                       |                        |                 |                     |                                    |
| Parameter                            | Flag                  |                      | Result                    |                        | Uni             |                     | RL                                 |
| Chloride                             |                       |                      | <1.80                     |                        | mg/1            | Kg                  | 3.25                               |
| Method Blank (1)                     | QC Batch: 61960       |                      |                           |                        |                 |                     |                                    |
| QC Batch: 61960                      |                       | Date A               | nalyzed:                  | 2009-07-29             |                 | A                   | analyzed By:                       |
| Prep Batch: 52856                    |                       |                      | paration:                 | 2009-07-29             |                 |                     | Prepared By:                       |
| Danamatan                            | Flor                  |                      | MDL                       |                        | T.              |                     | DI                                 |
| Parameter<br>DRO                     | Flag                  |                      | Result<br><5.66           |                        | Un<br>mg/       |                     | RL<br>50                           |
|                                      |                       | · · ·                | <b>\0.0</b> (             | ,                      | <u></u>         | Ng                  |                                    |
|                                      |                       |                      |                           |                        | Spike           | Percent             | Recovery                           |
| Surrogate                            | Flag Result           | Units                | Dil                       | ution                  | Amount          | Recovery            | Limits                             |
| n-Triacontane                        | 83.0                  | mg/Kg                |                           | 1                      | 100             | 83                  | 46.6 - 172                         |
| QC Batch: 62016<br>Prep Batch: 52901 |                       | Date Ana<br>QC Prepa | *-                        | 009-07-30<br>009-07-30 |                 |                     | lyzed By: ER<br>bared By: ER       |
| Parameter                            | $\operatorname{Flag}$ |                      | Res                       |                        | Ur              | nits                | $\mathbf{RL}$                      |
| Benzene                              | Q                     |                      | < 0.005                   |                        |                 | /Kg                 | 0.02                               |
| Toluene                              |                       |                      | <0.006                    | 611                    |                 | /Kg                 | 0.02                               |
| Ethylbenzene                         |                       |                      | <0.006                    |                        | mg              | /Kg                 | 0.02                               |
| Xylene                               |                       |                      | <0.006                    | 573                    | mg              | /Kg                 | 0.02                               |
| Surrogate                            | Flag                  | Result               | Units                     | Dilution               | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits                 |
| Trifluorotoluene (TF)                |                       | 1.88                 | mg/Kg                     | 1                      | 2.00            | 94                  | 71.8 - 112                         |
| 4-Bromofluorobenzen                  |                       | 1.78                 | mg/Kg                     | 1                      | 2.00            | 89                  | 72.8 - 115                         |
|                                      |                       |                      |                           |                        |                 |                     |                                    |
| Method Blank (1)                     | QC Batch: 62017       |                      |                           |                        |                 |                     |                                    |
| QC Batch: 62017                      |                       | Date Ana             | lyzed: 2                  | 009-07-30              |                 | Ana                 | lyzed By: ER                       |
| Prep Batch: 52901                    |                       | QC Prepa             |                           | 009-07-30              |                 |                     | oared By: ER                       |
|                                      |                       |                      | MDI                       |                        |                 |                     |                                    |
| Parameter                            | Flag                  |                      | Result                    |                        | Un              | its                 | $\mathbf{RL}$                      |
| GRO                                  | * ***0                |                      | <0.403                    |                        | mg/             |                     | <u> </u>                           |
|                                      |                       |                      | 20,100                    |                        | <u></u>         | **6                 |                                    |

| Report Date: July 31, 2009<br>MTS #2   |                          | Work Order: 9072907<br>MTS #2 Well Site Phase l Eval. |                              |                           |                |                 |   |                           | Page Number: 13 of 2<br>MTS #2 Well Sit |                                  |  |  |
|--|--------------------------|---|------------------------------|---------------------------|----------------|-----------------|---|---------------------------|---|----------------------------------|--|--|
| Surrogate  | Flag                     | Result  | Uni                          |                           | Dilution       | Spike<br>Amount |   | Percent<br>lecovery       | L                                       | covery<br>imits                  |  |  |
| Trifluorotoluene (TFT)   |                          | 2.02  | mg/l                         |                           | 1              | 2.00            |   | 101                       |   | 9 - 113                          |  |  |
| 4-Bromofluorobenzene (4-BFB)   |                          | 1.64  | mg/l                         | ng                        | 1              | 2.00            |   | 82                        | 00.                                     | 2 - 130                          |  |  |
| Method Blank (1) QC Bat  | ch: 62046                |   |                              |                           |                |                 |   |                           |   |                                  |  |  |
| QC Batch: 62046  |                          | Date A  | nalyzed:                     | 2009-0                    | 7-31           |                 |   | Anal                      | yzed By                                 | : SS                             |  |  |
| Prep Batch: 52927  |                          |   | paration                     | : 2009-0                  | <b>7-3</b> 0   |                 |   |                           | ared By                                 |                                  |  |  |
|  |                          |   |                              |                           |                |                 |   |                           |   |                                  |  |  |
| Parameter F  | lag                      |   |                              | IDL<br>sult               |                | Πr              | nits  |                           |   | $\mathbf{RL}$                    |  |  |
| Chloride   | .105                     |   |                              | 1.74                      |                |                 | $\frac{100}{\text{Kg}}$                       |                           |   | 10                               |  |  |
|  |                          |   |                              | un. 1.1                   |                |                 | <u>.                                     </u> |                           |   |                                  |  |  |
| Laboratory Control Spike (LC   | CS-1)                    |   |                              |                           |                |                 |   |                           |   |                                  |  |  |
| QC Batch: 61952  |                          | Date Ar   | alvzed:                      | 2009-0                    | 7-29           |                 |   | Analy                     | zed By                                  | ER                               |  |  |
| Prep Batch: 52849  |                          |   | paration:                    |                           |                |                 |   | -                         | red By:                                 |                                  |  |  |
| •  |                          |   | -                            |                           |                |                 |   |                           | U                                       |                                  |  |  |
|  | LC                       | S   |                              |                           | Spike          | e Ma            | triv  |                           | ,                                       | Rec.                             |  |  |
| Param  | Res                      |   | Jnits                        | Dil.                      | Amou           |                 |   | Rec.                      |   | imit                             |  |  |
| Benzene  | 1.9                      |   | g/Kg                         | 1                         | 2.00           |                 | 0505  | 98                        |   | 9 - 113                          |  |  |
| Toluene  | 1.9                      |   | g/Kg                         | 1                         | 2.00           | <0.0            | 0611  | 96                        | 78.                                     | 3 - 116                          |  |  |
| Ethylbenzene   | 1.8                      |   | g/Kg                         | 1                         | 2.00           |                 | 0630  | 94                        |   | 1 - 117                          |  |  |
| Xylene   | 5.7                      | <u>'9 m</u>   | g/Kg                         | 1                         | 6.00           | <0.0            | 0673  | 96                        | 79.                                     | 6 - 116                          |  |  |
| Percent recovery is based on the s   | pike result              | . RPD is l  | based on                     | the spike                 | e and spil     | ke duplicate    | result  |                           |   |                                  |  |  |
|  | LCSD                     |   |                              | Spike                     | Mati           | ·ix             | F   | lec.                      |   | RPD                              |  |  |
| Param  | Result                   | Units   | Dil.                         | Amount                    | Resu           |                 |   |                           | RPD                                     | Limit                            |  |  |
| Benzene  | 1.92                     | mg/Kg   | 1                            | 2.00                      | < 0.00         | 505 96          | 78.9  | - 113                     | 2                                       | 20                               |  |  |
| Toluene  | 1.90                     | mg/Kg   | 1                            | 2.00                      | < 0.00         |                 | 78.3  | - 116                     | 1                                       | 20                               |  |  |
| Ethylbenzene   | 1.85                     | mg/Kg   | 1                            | 2.00                      | < 0.00         |                 |   | - 117                     | 1                                       | <b>20</b>                        |  |  |
| Xylene   | 5.72                     | mg/Kg   | 1                            | 6.00                      | < 0.00         |                 | · · · · · · · · · · · · · · · · · · ·         | - 116                     | 1                                       | 20                               |  |  |
|  |                          | <b>DDD</b> in 1                                       | based on                     | the spike                 | and spil       | ce duplicate    | result.                                       |                           |   |                                  |  |  |
| Percent recovery is based on the s   | pike result.             |   |                              |                           |                |                 |   |                           |   |                                  |  |  |
| Percent recovery is based on the sp  | pike result.<br>LC       |   |                              |                           |                | Spike           | LCS   | LCSD                      | ן ו                                     | Rec.                             |  |  |
| -  |                          | S LC  | SD                           | Units                     | Dil.           | Spike<br>Amount | LCS<br>Rec.                                   | LCSD<br>Rec.              |   | Rec.<br>Jimit                    |  |  |
| Surrogate<br>Trifluorotoluene (TFT)  | LC                       | S LC<br>ult Res                                       | SD<br>sult                   | Units<br>ng/Kg            | Dil.           | -               |   |                           | I                                       |                                  |  |  |
| Surrogate<br>Trifluorotoluene (TFT)  | LC<br>Rest               | S LC<br>ult Res<br>9 1.8                              | SD<br>sult 1<br>83 m         |                           |                | Amount          | Rec.  | Rec.                      | I<br>70.5                               | imit                             |  |  |
| Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene (4-BFB)<br>Laboratory Control Spike (LC  | LC<br>Ress<br>1.8<br>1.8 | S LC<br>ult Res<br>9 1.8<br>7 1.8                     | SD<br>sult 1<br>83 m<br>85 m | ng/Kg                     | 1              | Amount<br>2.00  | Rec.<br>94                                    | Rec.<br>92                | I<br>70.5                               | imit<br>8 - 111                  |  |  |
| Percent recovery is based on the sp<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene (4-BFB)<br>Laboratory Control Spike (LC<br>QC Batch: 61953<br>Prep Batch: 52849 | LC<br>Ress<br>1.8<br>1.8 | S LC<br>ult Res<br>9 1.4<br>7 1.4<br>Date An          | SD<br>sult 1<br>83 m<br>85 m | ng/Kg<br>ng/Kg<br>2009-0' | 1<br>1<br>7-29 | Amount<br>2.00  | Rec.<br>94                                    | Rec.<br>92<br>92<br>Analy | I<br>70.5                               | imit<br>8 - 111<br>3 - 117<br>ER |  |  |

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|   |                       |                        |          | TS #2          | 14 of 2<br>Well Sit |                        |                   |            |                 |           |
|---|-----------------------|------------------------|----------|----------------|---------------------|------------------------|-------------------|------------|-----------------|-----------|
|   |                       | LCS                    |          |                |                     | Spike                  | Mat               | rix        |                 | Rec.      |
| Param                                   |                       | Resul                  | lt I     | Units          | Dil.                | Amount                 | Rest              | ult Rec    | •               | Limit     |
| GRO                                     |                       | 18.7                   | m        | ıg/Kg          | 1                   | 20.0                   | <0.4              | 03 94      | 7               | 2.6 - 12  |
| Percent recovery is based               | on the sp             | ike result. I          | RPD is b | based or       | n the spike a       | and spike d            | uplicate r        | esult.     |                 |           |
|   |                       | LCSD                   |          |                | Spike               | Matrix                 |                   | Rec.       |                 | RPD       |
| Param                                   |                       | Result                 | Units    | Dil.           | Amount              | Result                 | Rec.              | Limit      | RPD             | Limit     |
| GRO                                     |                       |                        | mg/Kg    | $\frac{DR}{1}$ | 20.0                | <0.403                 | <u> </u>          | 72.6 - 121 | $\frac{11D}{3}$ | 20        |
| Percent recovery is based               | on the sn             |                        |          |                |                     |                        |                   |            |                 |           |
| ercent recovery is based                | on the sp             |                        |          |                | i the spike a       | and spike d            | upicate i         |            |                 |           |
|   |                       | LCS                    | LCS      |                |                     |                        |                   | LCS LCS    |                 | Rec.      |
| Surrogate                               |                       | Resul                  |          |                |                     |                        |                   | Rec. Re    |                 | Limit     |
| Trifluorotoluene (TFT)                  |                       | 2.01                   | 1.9      |                | mg/Kg               |                        |                   | 100 95     |                 | 5.2 - 112 |
| -Bromofluorobenzene (4-                 | BEB)                  | 1.80                   | 1.7      | 78 1           | mg/Kg               | 1 2                    | .00               | 90 89      | ) 5             | 4.9 - 133 |
| Prep Batch: 52856                       |                       | T OO                   | -        | eparatio       | on: 2009-0          |                        | 26.               |            | Prepare         | ·         |
|   |                       | LCS                    |          |                |                     | Spike                  | Mat               | rix        |                 | Rec.      |
| Param                                   |                       | Resul                  |          | Units          | Dil.                | Amount                 | Resi              |            |                 | Limit     |
| DRO                                     |                       | 260                    |          | ig/Kg          | 1                   | 250                    | <5.               |            | : 7             | 1.2 - 159 |
| Percent recovery is based               | on the sp             | ike result.            | RPD is b | based or       | i the spike a       | and spike d            | uplicate r        | esult.     |                 |           |
|   |                       | LCSD                   |          |                | Spike               | Matrix                 |                   | Rec.       |                 | RPD       |
| Param                                   |                       | Result                 | Units    | Dil.           | Amount              | Result                 | Rec.              | Limit      | RPD             | Limi      |
| DRO                                     |                       | 257                    | mg/Kg    | 1              | 250                 | <5.66                  | 103               | 71.2 - 159 | 1               | 20        |
| Percent recovery is based               | on the sp             | ike result. I          | RPD is b | ased on        | 1 the spike a       | and spike d            | uplicate r        | esult.     |                 |           |
|   | LCS                   | LCSD                   |          |                |                     | Spike                  | LCS               | LCSD       | ł               | Rec.      |
| urrogate                                |                       |                        | U        | nits           | Dil.                | -                      |                   |            |                 | Limit     |
| -Triacontane                            | 95.5                  | 96.1                   |          |                | 1                   | 100                    | 96                | 96         | 4               | 6.6 - 172 |
| burrogate<br>-Triacontane               | LCS<br>Result<br>95.5 | LCSD<br>Result<br>96.1 |          | nits<br>;/Kg   | Dil.<br>1           | Spike<br>Amount<br>100 | LCS<br>Rec.<br>96 | Rec.       |                 | Lim       |
| aboratory Control Sp<br>QC Batch: 62016 | ike (LC               |                        | Date An  | alyzed:        | 2009-07-            | 30                     |                   | Ana        | alyzed B        | v: EI     |
| rep Batch: 52901                        |                       |                        | QC Prep  |                | : 2009-07-          | 30                     |                   |            | pared B         | •         |
|   |                       | LCS                    |          |                |                     | Spike                  | Matr              | ix         |                 | Rec.      |
|   |                       | Result                 | t TJ     | nits           | Dil.                | Amount                 | Resu              |            |                 | Limit     |
| Param                                   |                       | ricouri                | u U      | 111.00         | 1211.               | 1 THOULD               | ricou             | 10 1000    | ·•              | باللنبيين |

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|----------------------------|----------------------------------|-----------------------|
| MTS #2                     | MTS $#2$ Well Site Phase l Eval. | MTS $#2$ Well Site    |

control spikes continued ...

|              | $\mathbf{LCS}$ |       |      | Spike  | Matrix            |      | Rec.                   |
|--------------|----------------|-------|------|--------|-------------------|------|------------------------|
| Param        | Result         | Units | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\operatorname{Limit}$ |
| Toluene      | 1.87           | mg/Kg | 1    | 2.00   | < 0.00611         | 94   | 78.3 - 116             |
| Ethylbenzene | 1.83           | mg/Kg | 1    | 2.00   | < 0.00630         | 92   | 79.1 - 117             |
| Xylene       | 5.63           | mg/Kg | 1    | 6.00   | < 0.00673         | 94   | 79.6 - 116             |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|              | LCSD   |       |      | Spike  | Matrix    |      | Rec.       |          | RPD       |
|--------------|--------|-------|------|--------|-----------|------|------------|----------|-----------|
| Param        | Result | Units | Dil. | Amount | Result    | Rec. | Limit      | RPD      | Limit     |
| Benzene      | 1.95   | mg/Kg | 1    | 2.00   | < 0.00505 | 98   | 78.9 - 113 | 6        | 20        |
| Toluene      | 1.92   | mg/Kg | 1    | 2.00   | < 0.00611 | 96   | 78.3 - 116 | 3        | <b>20</b> |
| Ethylbenzene | 1.86   | mg/Kg | 1    | 2.00   | < 0.00630 | 93   | 79.1 - 117 | <b>2</b> | 20        |
| Xylene       | 5.76   | mg/Kg | 1    | 6.00   | < 0.00673 | 96   | 79.6 - 116 | <b>2</b> | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | LCS               | LCSD   |       |      | Spike  | LCS  | LCSD | Rec.             |
|------------------------------|-------------------|--------|-------|------|--------|------|------|------------------|
| Surrogate                    | $\mathbf{Result}$ | Result | Units | Dil. | Amount | Rec. | Rec. | $\mathbf{Limit}$ |
| Trifluorotoluene (TFT)       | 1.85              | 1.96   | mg/Kg | 1    | 2.00   | 92   | 98   | 70.8 - 111       |
| 4-Bromofluorobenzene (4-BFB) | 1.80              | 1.88   | mg/Kg | 1    | 2.00   | 90   | 94   | 68.3 - 117       |

#### Laboratory Control Spike (LCS-1)

| QC Batch:   | 62017 | Date Analyzed:  | 2009-07-30 | Analyzed By: | $\mathbf{ER}$ |
|-------------|-------|-----------------|------------|--------------|---------------|
| Prep Batch: | 52901 | QC Preparation: | 2009-07-30 | Prepared By: | $\mathbf{ER}$ |

|       | LCS    |       |      | Spike  | Matrix            |      | Rec.             |
|-------|--------|-------|------|--------|-------------------|------|------------------|
| Param | Result | Units | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$ |
| GRO   | 19.7   | mg/Kg | 1    | 20.0   | < 0.403           | 98   | 72.6 - 121       |
|       |        |       |      |        |                   |      |                  |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|       | LCSD              |       |      | Spike  | Matrix  |      | Rec.       |     | RPD   |
|-------|-------------------|-------|------|--------|---------|------|------------|-----|-------|
| Param | $\mathbf{Result}$ | Units | Dil. | Amount | Result  | Rec. | Limit      | RPD | Limit |
| GRO   | 19.5              | mg/Kg | 1    | 20.0   | < 0.403 | 98   | 72.6 - 121 | 1   | 20    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | LCS               | LCSD   |       |      | Spike  | LCS  | LCSD | Rec.             |
|------------------------------|-------------------|--------|-------|------|--------|------|------|------------------|
| Surrogate                    | $\mathbf{Result}$ | Result | Units | Dil. | Amount | Rec. | Rec. | $\mathbf{Limit}$ |
| Trifluorotoluene (TFT)       | 2.08              | 1.87   | mg/Kg | 1    | 2.00   | 104  | 94   | 75.2 - 112       |
| 4-Bromofluorobenzene (4-BFB) | 1.72              | 1.66   | mg/Kg | 1    | 2.00   | 86   | 83   | 54.9 - 133       |

#### Laboratory Control Spike (LCS-1)

| QC Batch:   | 62046 | Date Analyzed:  | 2009-07-31 | Analyzed By: | SS |
|-------------|-------|-----------------|------------|--------------|----|
| Prep Batch: | 52927 | QC Preparation: | 2009-07-30 | Prepared By: | SS |

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|---|---------------|---|-----------------------|----------------------|---|----------------|------------|--------------------|------------------------|
|   |               | CS  |                       |                      | Spike                                     |                | atrix      |                    | Rec.                   |
| Param   |               | sult  | Units                 | Dil.                 | Amount                                    |                | esult Re   |                    | Limit                  |
| Chloride  | 2:            | 33  | mg/Kg                 | 1                    | 250                                       | <              | 1.74 9     | 3                  | 90 - 110               |
| Percent recovery is based on the                            | spike result. | RPD is  | based on              | the spike            | and spike du                              | plicate        | result.    |                    |                        |
|   | LCSD          |   |                       | Spike                | Matrix                                    |                | Rec.       |                    | RPD                    |
| Param   | Result        | Units   | Dil.                  | Amoun                | t Result                                  | Rec.           | Limit      | RPD                | $\operatorname{Limit}$ |
| Chloride  | 235           | mg/K  | g 1                   | 250                  | <1.74                                     | 94             | 90 - 110   | 1                  | 20                     |
| QC Batch:         61952           Prep Batch:         52849 |               | QC Pre  | nalyzed:<br>eparation | 2009-07<br>: 2009-07 | <b>7-29</b>                               |                | Pre        | lyzed B<br>pared B | y: ER                  |
| D   | MS            |   |                       | D'1                  | Spike                                     | Mat            |            |                    | Rec.                   |
| Param   | Resu          |   | Units                 | Dil.                 | Amount                                    | Rest           |            |                    | Limit                  |
| Benzene   | 1.6           |   | ng/Kg                 | 1                    | 2.00                                      | < 0.00         |            |                    | 1.5 - 134              |
| Toluene<br>Ethylbenzene                                     | 1.7<br>1.8    |   | ng/Kg<br>ng/Kg        | 1                    | $\begin{array}{c} 2.00\\ 2.00\end{array}$ | <0.00<br><0.00 |            |                    | 4.2 - 143<br>7.7 - 152 |
| Xylene  | 5.6           |   | ng/Kg                 | 1<br>1               | 2.00<br>6.00                              | < 0.00         |            |                    | 7.8 - 152              |
| Percent recovery is based on the                            |               |   |                       |                      |   |                |            |                    | RPD                    |
| Param   | Result        | Units   | Dil.                  | Amount               | Result                                    | Rec.           | Limit      | RPD                | Limit                  |
| Benzene   | 1.73          | mg/Kg   | 1                     | 2.00                 | < 0.00505                                 | 86             | 61.5 - 134 | 5                  | 20                     |
| Toluene   | 1.83          | mg/Kg   | 1                     | 2.00                 | < 0.00611                                 | 92             | 64.2 - 143 | 3                  | 20                     |
| Ethylbenzene  | 1.95          | mg/Kg   | 1                     | 2.00                 | < 0.00630                                 | 98             | 67.7 - 152 | 5                  | 20                     |
| Xylene  | 5.90          | mg/Kg   | 1                     | 6.00                 | < 0.00673                                 | 98             | 67.8 - 152 | 4                  | <b>20</b>              |
| Percent recovery is based on the                            | spike result. | RPD is  | based on              | the spike            | and spike du                              | plicate        | result.    |                    |                        |

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|                              | MS                | MSD    |                  |      | Spike  | MS   | MSD  | Rec.                   |
|------------------------------|-------------------|--------|------------------|------|--------|------|------|------------------------|
| Surrogate                    | $\mathbf{Result}$ | Result | $\mathbf{Units}$ | Dil. | Amount | Rec. | Rec. | $\operatorname{Limit}$ |
| Trifluorotoluene (TFT)       | 1.85              | 1.92   | mg/Kg            | 1    | 2      | 92   | 96   | 65.3 - 134             |
| 4-Bromofluorobenzene (4-BFB) | 1.98              | 2.01   | mg/Kg            | 1    | 2      | 99   | 100  | 61.9 - 143             |

### Matrix Spike (MS-1) Spiked Sample: 203937

| QC Batch:<br>Prep Batch: | 61953<br>52849 |              | e Analyzed:<br>Preparation: | 2009-0<br>2009-0 |        |                  |      | ed By: ER<br>ed By: ER |
|--------------------------|----------------|--------------|-----------------------------|------------------|--------|------------------|------|------------------------|
| Param                    |                | MS<br>Result | Units                       | Dil.             | Spike  | Matrix<br>Result | Poo  | Rec.                   |
| 1 at atti                |                | nesuit       | Units                       | DII.             | Amount | nesun            | Rec. | $\mathbf{Limit}$       |
| GRO                      |                | 20.6         | mg/Kg                       | 20               | 20.0   | 12.4326          | 41   | 34.1 - 160             |

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| MTS $#2$                   | MTS $#2$ Well Site Phase l Eval. | MTS $#2$ Well Site    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| _  |  | MSD   |   |   | Spike  |   | Matrix  | _   | Ree   |                                   |                                      | RPD   |
|--|--|---|---|---|--|---|---|---|---|-----------------------------------|--------------------------------------|---|
| Param  | 18   | Result  | Units   | Dil.  | Amount   |   | Result  | Rec.  | Lim   |                                   | RPD                                  | Limit   |
| GRO  | 18   | 18.9  | mg/Kg   | 20  | 20.0   | 1   | 2.4326  | 32  | 34.1 -  | 160                               | 9                                    | 20  |
| Percent recovery   | is based on the spi  | ke result. I  | RPD is ba   | ised or   | the spike  | and   | spike dup   | plicate 1                                     | result.   |                                   |                                      |   |
|  |  | MS  | MSI   | D   |  |   | Spil  | ke  | MS  | MSI                               | D                                    | Rec.  |
| Surrogate  |  | Resul   |   |   | Units  | Dil.  | Amo   | unt   | Rec.  | Rec                               |                                      | Limit   |
| Trifluorotoluene   | · /  | 1.85  |   |   | mg <u>/</u> Kg   | 20  | 2   |   | 92  | 98                                |                                      | 6.9 - 137   |
| 4-Bromofluorobe  | enzene (4-BFB)   | 1.60  | 1.53  | 2   | mg/Kg  | 20  | 2   |   | 80  | 76                                | 4                                    | 2.1 - 171   |
| Matrix Spike (   | ( <b>MS-1)</b> Spiked S  | Sample: 203   | 3934  |   |  |   |   |   |   |                                   |                                      |   |
| QC Batch: 61   | 956  |   | Date Ana  | lyzed:  | 2009-07  | -29   |   |   |   | Anal                              | yzed B                               | y: KV   |
| Prep Batch: 52   | 852  |   | QC Prepa  | ration  | : 2009-07  | -29   |   |   |   | Prep                              | ared B                               | y: KV   |
|  |  | M   | S   |   |  |   | Spike   | M   | atrix   |                                   |                                      | Rec.  |
| Param  |  | Res   |   | Units   | Dil.   |   | Amount  |   | esult   | Re                                | c.                                   | Limit   |
| Chloride   | 19   |   |   | ng/Kg   | 100  |   | 500   |   | 260   | 92                                |                                      | 80 - 120  |
| r creent recovery  | is based on the spi  |   |   | iseu oi.  | i une spike  | anu   | spike dub   | incate i                                      | court.  |                                   |                                      |   |
| Param  |  | MSD<br>Besult   | Unite   | Dil   | Spike<br>Amour   |   | Matrix<br>Result  | Rec   | Re<br>Lin   |                                   | RPD                                  | RPD<br>Limit  |
|  | 20   | MSD<br>Result<br><180   | Units<br>mg/Kg  | Dil.<br>100   | Amour  |   | Matrix<br>Result<br>4260  | Rec.  | Re<br>Lin<br>80 -   | nit                               | RPD<br>200                           |   |
| Matrix Spike (<br>QC Batch: 61   | is based on the spi  | Result<br><180  | mg/Kg<br>RPD is ba  | 100<br>used on<br>nalyzed                                       | Amour<br>500<br>h the spike<br>d: 2009-0   | and :   | Result<br>4260<br>spike dup   | 0   | Lin<br>80 -   | nit<br>120<br>A                   |                                      | Limit<br>20<br>d By:  |
| Chloride<br>Percent recovery<br><b>Matrix Spike (</b><br>QC Batch: 619<br>Prep Batch: 528                              | is based on the spi<br>(MS-1) Spiked S<br>960                      | Result<br><180<br>ke result. 1<br>Sample: 203   | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S                               | 100<br>ised on<br>aalyzed<br>paratic                            | Amour<br>500<br>a the spike<br>d: 2009-0<br>on: 2009-0                                       | and :<br>07-29<br>07-29   | Result<br>4260<br>spike dup<br>Spike  | 0<br>plicate n<br>Ma                          | Lin<br>80 -<br>result.<br>atrix                                   | nit<br>120<br>A                   | 200                                  | Limit<br>20<br>ed By:<br>d By:<br>Rec.                            |
| Chloride<br>Percent recovery<br><b>Matrix Spike (</b><br>QC Batch: 619<br>Prep Batch: 529<br>Param                     | is based on the spi<br>(MS-1) Spiked S<br>960<br>856               | Result<br><180<br>ke result. 1<br>Sample: 203<br>MS<br>Resu                           | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S<br>Ilt I                      | 100<br>ised on<br>aalyzed<br>paratic<br>Units                   | Amour<br>500<br>a the spike<br>d: 2009-(<br>on: 2009-(<br>Dil.                               | and :<br>07-29<br>07-29   | Result<br>4260<br>spike dup<br>Spike<br>Amount  | 0<br>olicate 1<br>Ma<br>Ra                    | Lin<br>80 -<br>result.<br>atrix<br>esult                          | nit<br>120<br>A<br>F              | 200<br>nalyze<br>repare<br>c.        | Limit<br>20<br>ed By:<br>d By:<br>Rec.<br>Limit                   |
| Chloride<br>Percent recovery<br><b>Matrix Spike (</b><br>QC Batch: 619<br>Prep Batch: 529<br>Param                     | is based on the spi<br>(MS-1) Spiked S<br>960                      | Result<br><180<br>ke result. 1<br>Sample: 203<br>MS<br>Resu                           | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S<br>Ilt I                      | 100<br>ised on<br>aalyzed<br>paratic                            | Amour<br>500<br>a the spike<br>d: 2009-0<br>on: 2009-0                                       | and :<br>07-29<br>07-29   | Result<br>4260<br>spike dup<br>Spike  | 0<br>olicate 1<br>Ma<br>Ra                    | Lin<br>80 -<br>result.<br>atrix                                   | nit<br>120<br>A<br>F              | 200<br>nalyze<br>repare<br>c.        | Limit<br>20<br>ed By:<br>d By:<br>Rec.<br>Limit                   |
| Chloride<br>Percent recovery<br><b>Matrix Spike (</b><br>QC Batch: 619<br>Prep Batch: 526<br>Param<br>DRO              | is based on the spi<br>(MS-1) Spiked S<br>960<br>856               | Result<br><180<br>ke result. 1<br>Sample: 203<br>MS<br>Result<br>1810<br>ke result. 1 | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S<br>1lt U                      | 100<br>Ised on<br>alyzed<br>paratic<br>Units<br>Ig/Kg           | Amour<br>500<br>a the spike<br>d: 2009-0<br>on: 2009-0<br>Dil.<br>20<br>a the spike          | and and a 207-29 207-207-207-207-207-207-207-207-207-207- | Result<br>4260<br>spike dup<br>Spike dup<br>Spike<br>Amount<br>250<br>spike dup           | 0<br>blicate r<br>Ma<br>Ra<br>16              | Lin<br>80 -<br>result.<br>atrix<br>esult<br>5200                  | nit<br>120<br>A<br>F              | 200<br>nalyze<br>repare<br>c.        | Limit<br>20<br>d By:<br>d By:<br>Limit<br>10 - 218                |
| Chloride<br>Percent recovery<br>Matrix Spike (<br>QC Batch: 619<br>Prep Batch: 528<br>Param<br>DRO<br>Percent recovery | is based on the spi<br>( <b>MS-1)</b> Spiked S<br>960<br>856<br>21 | Result<br><180<br>ke result. 1<br>Sample: 203<br>MSD                                  | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S<br>1lt I<br>20 m<br>RPD is ba | 100<br>Ised on<br>alyzed<br>paratic<br>units<br>Ig/Kg<br>sed on | Amour<br>500<br>a the spike<br>d: 2009-0<br>on: 2009-0<br>Dil.<br>20<br>a the spike<br>Spike | and :<br>07-29<br>07-29<br>and :  | Result<br>4260<br>spike dup<br>Spike dup<br>Spike<br>Amount<br>250<br>spike dup<br>Matrix | 0<br>blicate o<br>Ma<br>Ra<br>10<br>blicate o | Lin<br>80 -<br>result.<br>atrix<br>esult<br>5200<br>result.<br>Re | nit<br>120<br>A<br>P<br>Re<br>76  | 200<br>Inalyze<br>Prepare<br>c.<br>0 | Limit<br>20<br>d By:<br>d By:<br>Rec.<br>Limit<br>10 - 218<br>RPD |
| Chloride<br>Percent recovery<br><b>Matrix Spike (</b><br>QC Batch: 619<br>Prep Batch: 526<br>Param<br>DRO              | is based on the spi<br>( <b>MS-1)</b> Spiked S<br>960<br>856<br>21 | Result<br><180<br>ke result. 1<br>Sample: 203<br>MS<br>Result<br>1810<br>ke result. 1 | mg/Kg<br>RPD is ba<br>3937<br>Date Ar<br>QC Prej<br>S<br>1lt U                      | 100<br>Ised on<br>alyzed<br>paratic<br>Units<br>Ig/Kg           | Amour<br>500<br>a the spike<br>d: 2009-0<br>on: 2009-0<br>Dil.<br>20<br>a the spike<br>Spike | and :<br>07-29<br>07-29<br>and :  | Result<br>4260<br>spike dup<br>Spike dup<br>Spike<br>Amount<br>250<br>spike dup           | 0<br>blicate r<br>Ma<br>Ra<br>16              | Lin<br>80 -<br>result.<br>atrix<br>esult<br>5200<br>result.       | nit<br>120<br>A<br>F<br>Rec<br>76 | 200<br>nalyze<br>repare<br>c.        | Limit<br>20<br>d By:<br>d By:<br>Rec.<br>Limit<br>10 - 218        |

<sup>18</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

<sup>19</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>20</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>21</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>22</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

| Report Date: July 31, 2009 | Work Order: 9072907            | Page Number: 18 of 22 |
|----------------------------|--------------------------------|-----------------------|
| MTS $#2$                   | MTS #2 Well Site Phase l Eval. | MTS #2 Well Site      |
|                            |                                |                       |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|               |       | MS                | MSD               |       |      | Spike  | MS   | MSD  | Rec.       |
|---------------|-------|-------------------|-------------------|-------|------|--------|------|------|------------|
| Surrogate     |       | $\mathbf{Result}$ | $\mathbf{Result}$ | Units | Dil. | Amount | Rec. | Rec. | Limit      |
| n-Triacontane | 23 24 | 1650              | 1540              | mg/Kg | 20   | 100    | 1650 | 1540 | 46.6 - 172 |

#### Matrix Spike (MS-1) Spiked Sample: 204184

| QC Batch:   | 62016 | Date Analyzed:  | 2009-07-30 | Analyzed By: | $\mathbf{ER}$ |
|-------------|-------|-----------------|------------|--------------|---------------|
| Prep Batch: | 52901 | QC Preparation: | 2009-07-30 | Prepared By: | $\mathbf{ER}$ |

|              | MS                |       |      | Spike  | Matrix            |      | Rec.             |
|--------------|-------------------|-------|------|--------|-------------------|------|------------------|
| Param        | $\mathbf{Result}$ | Units | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$ |
| Benzene      | 2.06              | mg/Kg | 1    | 2.00   | < 0.00505         | 103  | 61.5 - 134       |
| Toluene      | 2.15              | mg/Kg | 1    | 2.00   | < 0.00611         | 108  | 64.2 - 143       |
| Ethylbenzene | 2.22              | mg/Kg | 1    | 2.00   | < 0.00630         | 111  | 67.7 - 152       |
| Xylene       | 6.86              | mg/Kg | 1    | 6.00   | < 0.00673         | 114  | 67.8 - 152       |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|              | MSD    |       |      | Spike             | Matrix    |      | Rec.             |     | RPD       |
|--------------|--------|-------|------|-------------------|-----------|------|------------------|-----|-----------|
| Param        | Result | Units | Dil. | $\mathbf{Amount}$ | Result    | Rec. | $\mathbf{Limit}$ | RPD | Limit     |
| Benzene      | 2.06   | mg/Kg | 1    | 2.00              | < 0.00505 | 103  | 61.5 - 134       | 0   | 20        |
| Toluene      | 2.15   | mg/Kg | 1    | 2.00              | < 0.00611 | 108  | 64.2 - 143       | 0   | <b>20</b> |
| Ethylbenzene | 2.30   | mg/Kg | 1    | 2.00              | < 0.00630 | 115  | 67.7 - 152       | 4   | 20        |
| Xylene       | 6.95   | mg/Kg | 1    | 6.00              | < 0.00673 | 116  | 67.8 - 152       | 1   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | MS                | MSD               |                  |      | Spike  | MS   | MSD  | Rec.       |
|------------------------------|-------------------|-------------------|------------------|------|--------|------|------|------------|
| Surrogate                    | $\mathbf{Result}$ | $\mathbf{Result}$ | $\mathbf{Units}$ | Dil. | Amount | Rec. | Rec. | Limit      |
| Trifluorotoluene (TFT)       | 2.17              | 2.30              | mg/Kg            | 1    | 2      | 108  | 115  | 65.3 - 134 |
| 4-Bromofluorobenzene (4-BFB) | 2.28              | 2.38              | mg/Kg            | 1    | 2      | 114  | 119  | 61.9 - 143 |

#### Matrix Spike (MS-1) Spiked Sample: 203937

| QC Batch:<br>Prep Batch: | 62017<br>52901 |        | e Analyzed:<br>Preparation: | 2009-07<br>2009-07 |                         |                   | v    | ed By: ER<br>ed By: ER |
|--------------------------|----------------|--------|-----------------------------|--------------------|-------------------------|-------------------|------|------------------------|
| _                        |                | MS     |                             |                    | Spike                   | Matrix            |      | Rec.                   |
| Param                    |                | Result | Units                       | Dil.               | $\operatorname{Amount}$ | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$       |
| GRO                      |                | 47.0   | mg/Kg                       | 5                  | 20.0                    | 37.8              | 46   | 34.1 - 160             |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

 <sup>&</sup>lt;sup>23</sup>High surrogate recovery due to peak interference.
 <sup>24</sup>High surrogate recovery due to peak interference.

| Report Date: Jul<br>MTS #2                          | l <u>y</u> 31, 2009 |           |             |   |                  | der: 90729<br>Site Phase |               | val.      |        | F                |             |                    | 19 of 22<br>Well Site  |
|---|---------------------|-----------|-------------|---|------------------|--------------------------|---------------|-----------|--------|------------------|-------------|--------------------|------------------------|
|   |                     |           | MSD         |   |                  | Spike                    | •             | Matrix    |        | Re               | c.          |                    | RPD                    |
| Param   |                     |           | Result      | Units   | Dil.             | Amoun                    | ıt            | Result    | Rec.   | Lin              | nit         | RPD                | Limit                  |
| GRO   |                     | 25        | 34.9        | mg/Kg   | 5                | 20.0                     |               | 37.8      | -14    | 34.1 -           | <b>16</b> 0 | 30                 | 20                     |
| Percent recovery                                    | is based on t       | the spik  | e result.   | RPD is ba                                     | ased or          | n the spike              | and           | spike dup | licate | result.          |             |                    |                        |
|   |                     |           | MS          | MS  | D                |                          |               | Spil      | œ      | MS               | MSI         | )                  | Rec.                   |
| Surrogate   |                     |           | Resul       |   |                  | Units                    | Dil           |           |        | Rec.             | Rec         |                    | Limit                  |
| Trifluorotoluene (                                  | (TET)               |           | 1.63        |   |                  | mg/Kg                    | 5             | 2         |        | 82               | 84          |                    | 5.9 - 137              |
| 4-Bromofluorober                                    | · ·                 | B)        | 2.14        | 1.9   |                  | mg/Kg                    | 5             | 2         |        | 107              | 99          | 42                 | 2.1 - 171              |
| QC Batch: 620<br>Prep Batch: 529                    |                     |           | М           | Date Ana<br>QC Prep<br>S                      |                  |                          |               | Spike     | N      | Iatrix           |             | lyzed E<br>pared B |                        |
| Param   |                     |           | Res         |   | Units            | Dil.                     |               | Amount    |        | lesult           | Rec         | 2.                 | Limit                  |
| Chloride  |                     | 26        | 36          | 4 n   | ng/Kg            | 1                        | -             | 250       |        | <1.74            | 140         |                    | 90 - 110               |
| Percent recovery                                    | is based on t       | the spik  | e result.   |   |                  |                          | and           | spike dup | licate | result.          |             |                    |                        |
|   |                     |           | MSD         |   |                  | Spike                    | Э             | Matrix    |        | Re               | ec.         |                    | RPD                    |
| Param   |                     |           | Result      | Units   | Dil              |                          | $\mathbf{nt}$ | Result    | Rec.   | Lin              | nit         | RPD                | $\operatorname{Limit}$ |
| Chloride  | ·····               | 27        | 368         | mg/Kg   | 1                | 250                      |               | <1.74     | 147    | 90 -             | 110         | 1                  | 20                     |
| Percent recovery<br>Standard (CCV<br>QC Batch: 6195 | 7-1)                | the spike |             | RPD is ba<br>Date Ana                         |                  |                          |               | spike dup | licate | result.          | Anal        | yzed B             | v: ER                  |
| <b>.</b>  | -                   |           |             |   | - <u>j</u> _2041 |                          |               |           |        |                  |             | <i>J 200 2</i> ,   | <u>,</u>               |
|   |                     |           |             | CCVs  |                  | CCVs                     |               | CCVs      |        | Perce            |             |                    | <b>n</b> .             |
| Danam   | Els -               | TT        |             | True  |                  | Found                    |               | Percent   |        | Recove           | · -         |                    | Date                   |
| Param<br>Bangana                                    | Flag                |           | nits<br>/Ka | Conc.   |                  | Conc.                    |               | Recovery  |        |                  |             |                    | nalyzed                |
| Benzene<br>Toluene                                  |                     | ~         | /Kg<br>/Ka  | $\begin{array}{c} 0.100 \\ 0.100 \end{array}$ |                  | 0.0962                   |               | 96<br>05  |        | 80 - 1           |             |                    | 09-07-29               |
| Ethylbenzene  |                     |           | /Kg<br>/Kg  | $0.100 \\ 0.100$                              |                  | $0.0946 \\ 0.0925$       |               | 95<br>92  |        | 80 - 1<br>80 - 1 |             |                    | )9-07-29<br>)9-07-29   |
| Nulono  |                     |           | /Kg         | 0.100   |                  | 0.0920                   |               | 92        |        | 00 - 1<br>20 1   |             |                    | 19-07-29               |

#### Standard (CCV-2)

Xylene

QC Batch: 61952

Date Analyzed: 2009-07-29

0.286

95

Analyzed By: ER

2009-07-29

80 - 120

0.300

mg/Kg

<sup>25</sup>Matrix spike recovery and RPD outside control limits. Use LCS/LCSD to demonstrate analysis is under control.
 <sup>26</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 <sup>27</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| umber: 20 of 2<br>TS #2 Well Sit |          |          | k Order: 90729<br>Well Site Phase |                                      | )     | e: July 31, 2009 | Report Dat<br>MTS #2 |
|----------------------------------|----------|----------|-----------------------------------|--------------------------------------|-------|------------------|----------------------|
|                                  | Percent  | CCVs     | CCVs                              | CCVs                                 |       |                  |                      |
| Date                             | Recovery | Percent  | Found                             | True                                 |       |                  |                      |
| Analyzed                         | Limits   | Recovery | Conc.                             | Conc.                                | Units | Flag             | Param                |
| 2009-07-29                       | 80 - 120 | 93       | 0.0934                            | 0.100                                | mg/Kg |                  | Benzene              |
| 2009-07-29                       | 80 - 120 | 91       | 0.0911                            | 0.100                                | mg/Kg |                  | Toluene              |
| 2009-07-29                       | 80 - 120 | 88       | 0.0881                            | 0.100                                | mg/Kg | e                | Ethylbenzer          |
| 2009-07-29                       | 80 - 120 | 91       | 0.273                             | 0.300                                | mg/Kg |                  | Xylene               |
|                                  |          |          |                                   |                                      |       | (CCV-1)          | Standard (           |
| yzed By: ER                      | Anal     | 29       | yzed: 2009-07-                    | Date Anal                            |       | 61953            | QC Batch:            |
|                                  | Percent  | CCVs     | CCVs                              | CCVs                                 |       |                  |                      |
| Date                             | Recovery | Percent  | Found                             | True                                 |       |                  |                      |
| Analyzed                         | Limits   | Recovery | Conc.                             | Conc.                                | Units | Flag             | Param                |
| 2009-07-2                        | 80 - 120 | 94       | 0.942                             | 1.00                                 | mg/Kg | Q                | GRO                  |
|                                  |          |          |                                   |                                      |       | · · · ·          |                      |
|                                  |          |          |                                   |                                      |       | (CCV-2)          | Standard (           |
| yzed By: ER                      | Anal     | 29       | yzed: 2009-07-                    | Date Anal                            |       | 61953            | QC Batch:            |
| _                                | Percent  | CCVs     | CCVs                              | CCVs                                 |       |                  |                      |
| Date                             | Recovery | Percent  | Found                             | $\operatorname{True}_{\widetilde{}}$ |       |                  | _                    |
| Analyzed                         | Limits   | Recovery | Conc.                             | Conc.                                | Units | Flag             | Param                |
| 2009-07-2                        | 80 - 120 | 87       | 0.869                             | 1.00                                 | mg/Kg |                  | GRO                  |
|                                  |          |          |                                   |                                      |       | (ICV-1)          | Standard (           |
| yzed By: KV                      | Anal     | 29       | zed: 2009-07-                     | Date Anal                            |       | 61956            | QC Batch:            |
|                                  | Percent  | ICVs     | ICVs                              | ICVs                                 |       |                  |                      |
| Date                             | Recovery | Percent  | Found                             | True                                 |       |                  |                      |
| Analyzed                         | Limits   | Recovery | Conc.                             | Conc.                                | Units | Flag             | Param                |
| 2009-07-2                        | 85 - 115 | 99       | 99.3                              | 100                                  | mg/Kg | ····             | Chloride             |
|                                  |          |          |                                   |                                      |       | (CCV-1)          | Standard (           |
| yzed By: KV                      | Anal     | 29       | zed: 2009-07-                     | Date Anal                            |       | 61956            | QC Batch:            |
|                                  | Percent  | CCVs     | CCVs                              | CCVs                                 |       |                  |                      |
| Date                             | Recovery | Percent  | Found                             | True                                 |       |                  |                      |
| Analyzed<br>2009-07-2            | Limits   | Recovery | Conc.                             | Conc.                                | Units | Flag             | Param                |
|                                  | 85 - 115 | 101      | 101                               | 100                                  | mg/Kg |                  | Chloride             |

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| Report Dat<br>MTS #2              | Report Date: July 31, 2009<br>MTS #2 |                         |                              | k Order: 90729<br>Well Site Phase                         |                                   | Page Number: 21 of 22<br>MTS #2 Well Site |  |  |  |
|-----------------------------------|--------------------------------------|-------------------------|------------------------------|---|-----------------------------------|---|--|--|--|
| Standard                          | (CCV-1)                              |                         |                              |   |                                   |   |  |  |  |
| QC Batch:                         | 61960                                |                         | Date Ana                     | alyzed: 2009-0  | 7-29                              | А   | nalyzed By:                            |  |  |
| Param<br>DRO                      | Flag                                 | Units<br>mg/Kg          | CCVs<br>True<br>Conc.<br>250 | CCVs<br>Found<br>Conc.<br>245                             | CCVs<br>Percent<br>Recovery<br>98 | Percent<br>Recovery<br>Limits<br>80 - 120 | Date<br>Analyzed<br>2009-07-29         |  |  |
| Standard                          | (CCV-2)                              |                         |                              |   |                                   |   |  |  |  |
| QC Batch:                         | 61960                                |                         | Date Ana                     | alyzed: 2009-0  | 07-29                             | А   | nalyzed By:                            |  |  |
| Param<br>DRO                      | Flag                                 | Units<br>mg/Kg          | CCVs<br>True<br>Conc.<br>250 | CCVs<br>Found<br>Conc.<br>231                             | CCVs<br>Percent<br>Recovery<br>92 | Percent<br>Recovery<br>Limits<br>80 - 120 | Date<br>Analyzed<br>2009-07-29         |  |  |
| Standard                          | (CCV-2)                              | 0/0                     |                              |   |                                   |   |  |  |  |
| QC Batch:                         | . ,                                  |                         | Date Analy                   | yzed: 2009-07-  | -30                               | Anal                                      | yzed By: ER                            |  |  |
|                                   |                                      |                         | CCVs<br>True                 | CCVs<br>Found   | CCVs<br>Percent                   | Percent<br>Recovery                       | Date                                   |  |  |
| Param                             | Flag                                 | Units                   | Conc.                        | Conc.   | Recovery                          | Limits                                    | Analyzed                               |  |  |
| Benzene<br>Toluene<br>Ethylbenzer |                                      | mg/Kg<br>mg/Kg<br>mg/Kg | $0.100 \\ 0.100 \\ 0.100$    | $\begin{array}{c} 0.0919 \\ 0.0895 \\ 0.0863 \end{array}$ | 92<br>90<br>86                    | 80 - 120<br>80 - 120<br>80 - 120          | 2009-07-30<br>2009-07-30<br>2009-07-30 |  |  |
| Xylene<br>Standard                | (CCV-3)                              | mg/Kg                   | 0.300                        | 0.267   | 89                                | 80 - 120                                  | 2009-07-30                             |  |  |
| QC Batch:                         |                                      |                         | Date Anal                    | yzed: 2009-07-  | -30                               | Anal                                      | yzed By: ER                            |  |  |

|              |      |       | CCVs<br>True | CCVs<br>Found | $\operatorname{CCVs}$ Percent | Percent<br>Recovery | Date       |
|--------------|------|-------|--------------|---------------|-------------------------------|---------------------|------------|
| Param        | Elag | Units | Conc.        | Conc.         | Recovery                      | Limits              | Analyzed   |
| Benzene      |      | mg/Kg | 0.100        | 0.0940        | 94                            | 80 - 120            | 2009-07-30 |
| Toluene      |      | mg/Kg | 0.100        | 0.0912        | 91                            | 80 - 120            | 2009-07-30 |
| Ethylbenzene |      | mg/Kg | 0.100        | 0.0880        | 88                            | 80 - 120            | 2009-07-30 |
| Xylene       |      | mg/Kg | 0.300        | 0.270         | 90                            | 80 - 120            | 2009-07-30 |

### Standard (CCV-2)

QC Batch: 62017

Date Analyzed: 2009-07-30

Analyzed By: ER

| Report Da<br>MTS #2   | te: July 31, 20 | 009            |                       | rk Order: 9072<br>2 Well Site Pha |                             |                               | umber: 22 of 22<br>FS #2 Well Site |
|-----------------------|-----------------|----------------|-----------------------|-----------------------------------|-----------------------------|-------------------------------|------------------------------------|
| Param                 | Flag            | Units          | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc.            | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed                   |
| GRO                   |                 | mg/Kg          | 1.00                  | 0.911                             | 91                          | 80 - 120                      | 2009-07-30                         |
| Standard              | (CCV-3)         |                | ,                     |                                   |                             |                               |                                    |
| QC Batch:             | 62017           |                | Date Ana              | lyzed: 2009-0'                    | 7-30                        | Anal                          | yzed By: ER                        |
|                       |                 |                | CCVs<br>True          | CCVs<br>Found                     | CCVs<br>Percent             | Percent<br>Recovery           | Date                               |
| Param                 | Flag            | Units          | Conc.                 | Conc.                             | Recovery                    | Limits                        | Analyzed                           |
| GRO                   | ¥               | mg/Kg          | 1.00                  | 0.909                             | 91                          | 80 - 120                      | 2009-07-30                         |
| Standard<br>QC Batch: | , ,             |                | Date Ana              | lyzed: 2009-0                     | 7-31                        | Ana                           | lyzed By: SS                       |
|                       |                 |                | CCVs<br>True          | CCVs<br>Found                     | CCVs<br>Percent             | Percent<br>Recovery           | Date                               |
| Param<br>Chloride     | Flag            | Units<br>mg/Kg | <u>Conc.</u><br>25.0  | Conc.<br>23.5                     | Recovery<br>94              | Limits<br>90 - 110            | Analyzed 2009-07-31                |
| Standard<br>QC Batch: |                 | ~~0/0          | Date Ana              |                                   |                             |                               | lyzed By: SS                       |
| •                     |                 |                |                       | <i>v.</i>                         |                             |                               | J J · J O                          |
| Param                 | Flag            | Units          | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc.            | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed                   |
| Chloride              | 0               | mg/Kg          | 25.0                  | 23.1                              | 92                          | 90 - 110                      | 2009-07-31                         |

| ONLY       3       3       8       9       7       7       9  | LAB Ord                     | er ID #       | 4072                   | 907         |        |              |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       |              | Pa             | ge_         |       |           | (            | of       |       |             |          |
|---|-----------------------------|---------------|------------------------|-------------|--------|--------------|-----------|--------|-------|-------------|-------------------|--------------|---------------|-------|-------------|---------|-------------|--------------|--------|-------|-------------------------|------------|--------------|-----------------|-------------|-----------------------|---------------------------------|--------------------------------------|--------------------------------|-----------------------|--------------|----------------|-------------|-------|-----------|--------------|----------|-------|-------------|----------|
| (#1 different from above)       Project Name:       Image: Frage: Name:       Image: Frage: Name:       Image: Name: <td< td=""><td></td><td>T</td><td></td><td>•</td><td></td><td>-</td><td></td><td>1C</td><td>•</td><td></td><td></td><td>670<i>′</i></td><td>Lubr</td><td>ock.</td><td>Теха</td><td>s 7942</td><td>24</td><td>5</td><td>Midlan</td><td>d. T</td><td>exas</td><td>79703</td><td></td><td>2</td><td>Eļ</td><td>Pas<br/>Tel (<br/>Fax (</td><td><b>io, T</b>(<br/>915)<br/>(915)</td><td>9xas<br/>585-<br/>585</td><td>5 <b>79</b>9<br/>-344<br/>5-494</td><td><b>922</b><br/>3<br/>44</td><td>Ε</td><td>88(</td><td>08 C</td><td>Ft.</td><td>Wort</td><td>th, T</td><td>exas</td><td>76116</td><td>Suite '</td><td>180</td></td<>   |                             | T             |                        | •           |        | -            |           | 1C     | •     |             |                   | 670 <i>′</i> | Lubr          | ock.  | Теха        | s 7942  | 24          | 5            | Midlan | d. T  | exas                    | 79703      |              | 2               | Eļ          | Pas<br>Tel (<br>Fax ( | <b>io, T</b> (<br>915)<br>(915) | 9xas<br>585-<br>585                  | 5 <b>79</b> 9<br>-344<br>5-494 | <b>922</b><br>3<br>44 | Ε            | 88(            | 08 C        | Ft.   | Wort      | th, T        | exas     | 76116 | Suite '     | 180      |
| (#1 different from above)       Project Name:       Pr  | Company N                   | ame/          | a Cania                | A-11/1      |        |              |           |        |       | Pho         | one #             | 1.3          | 2-            | 3_10  | 2_          | 87      | 60          |              |        |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       |             |          |
| (#1 different from above)       Project Name:       Image: Fride of the state:       Image: Fride  | Address:                    |               | City, Zip)             |             | 2      | Lin -        | T         | , ,    | 70    | Fax         | ;#:<br>/:         |              | <br>< .       | 202-3 | .7 -        |         | 001         | ia           |        | ı     | 1                       |            | (            | (Ci             | rc          | le                    | or                              | S                                    | pe                             | ci                    | fy           | M              | eti         | 10    | d h       | VO           | .)       | 1     | ı           | .        |
| (#1 different from above)       Project Name:       Image: Frage: Name:       Image: Frage: Name:       Image: Name: <td< td=""><td>Contact Per</td><td></td><td>. NL</td><td>an, A</td><td>us</td><td><u> </u></td><td><b></b>X</td><td></td><td>(0</td><td><u>Ε-</u>π</td><td><u>p</u><br/>nail:</td><td></td><td></td><td>d.</td><td><u>5 2</u></td><td>9-0</td><td>017</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td>00.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ard</td><td></td></td<>  | Contact Per                 |               | . NL                   | an, A       | us     | <u> </u>     | <b></b> X |        | (0    | <u>Ε-</u> π | <u>p</u><br>nail: |              |               | d.    | <u>5 2</u>  | 9-0     | 017         | D            |        |       |                         |            |              | 00.7            |             |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       | ard         |          |
| understanding state:       Project Name:       Project  | Invoice to:                 | Schn          | NAT                    |             |        |              |           |        |       | <i>u</i> U  | 2                 | nn           | idt           | 23    | Þ           | glot    | tet i l     | <u>let</u>   |        |       | 035)                    |            |              | 010/2           | e<br>E<br>E |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       | stand       |          |
| Tank       I       X       X       Marker 10000       Stex       TAN (DRC GRD), C2       X         Q05939       N Sule       I       X       X       Marker 10000       Stex       TAN (DRC GRD), C2       X         935       S side       I       X       X       Marker 10000       Stex   | (If different<br>Project #: | from above    | )                      | ······      | ·      | ······       |           |        |       | Bro         | lact              | Nam          |               |       | ~           | <u></u> |             |              |        | 54    |                         |            |              | E G             | 2           |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       |             |          |
| Tank       I       X       X       Marker 10000       Stex       TAN (DRC GRD), C2       X         Q05939       N Sule       I       X       X       Marker 10000       Stex       TAN (DRC GRD), C2       X         935       S side       I       X       X       Marker 10000       Stex   | M                           | 3#2           |                        |             |        |              |           | M      | HS    | t.          | 2                 | Nb           | Ĩk            | te    | .11         | hase    | <u>el E</u> | <u>-va</u>   | el.    | 0/6   | 1005                    | ITH        |              | <u>a j</u> -    | 5           |                       |                                 |                                      |                                | 625                   |              |                |             |       |           |              |          |       | rent fi     |          |
| Tank       I       N       X       Markey ISSO       Bite X, TAH (DRC, GRO), C2       X         Q05919       N Sule       I       X       X       Markey ISSO       On all Spingles       X         935       S side       I       X       X       Markey ISSO       On all Spingles       X         935       S side       I       X       X       Markey       Mussion       All State         937       Load Ine Side       I       X       X       ISSO       Ine Side       Isso         937       N sube       I       X       X       ISdo       Ine NST       Ine Side       Isso         938       S sube       I       X       X       Isso   | Project Lec<br>AS De        | ation (inclue | ding state):<br>MTS#21 | Nellsi      | te     |              |           |        |       | Sar         | nplei             | r Sig        | inati         | ıre:  |             |         |             |              |        | / 826 | 8260<br>7 TX            | ,<br>So    |              | 510             | E A A       |                       |                                 |                                      | 324                            | 270 /                 |              | 8              |             |       |           |              |          |       | diffe       |          |
| Tank       I       N       X       Markey ISSO       Bite X, TAH (DRC, GRO), C2       X         Q05919       N Sule       I       X       X       Markey ISSO       On all Spingles       X         935       S side       I       X       X       Markey ISSO       On all Spingles       X         935       S side       I       X       X       Markey       Mussion       All State         937       Load Ine Side       I       X       X       ISSO       Ine Side       Isso         937       N sube       I       X       X       ISdo       Ine NST       Ine Side       Isso         938       S sube       I       X       X       Isso   |                             |               |                        |             |        | ount         |           | MA     | TRI   | (<br>       |                   | PR           |               |       |             | E       | SAI         | MPL          | ING    | -1    | / 602 /<br>TX1005       | RO / DI    |              | JAs Ba (        | Ag As       | /olatiles             | ides                            |                                      | 8260 / 6                       | i. Vol. 8             |              | ~              | I I         | IUeli |           |              |          |       | Time if     |          |
| 203934       N Side       I       X       Value       X       Value       Yalo       Yalo <t< td=""><td>LAB USE</td><td></td><td>FIELD CODE</td><td></td><td></td><td>Volume / Arr</td><td>WATER</td><td>SOIL</td><td>AIR</td><td>SLUDGE</td><td>HCI</td><td>HNO3</td><td>H₂SO₄</td><td>NaOH</td><td>ICE<br/>MONE</td><td>NONE</td><td>DATE</td><td></td><td>TIME</td><td>1</td><td>BTEX 8021<br/>TPH 418.17</td><td>TPH 8015 G</td><td>PAH 8270 / 6</td><td>Total Metals Ac</td><td>TCLP Metals</td><td>TCLP Semi</td><td>TCLP Pestic</td><td>RCI</td><td>GC/MS Vol.</td><td>GC/MS Sem</td><td>PCB's 8082</td><td>Pesticides 8(</td><td>BUD, 155, F</td><td></td><td></td><td></td><td></td><td></td><td>Turn Around</td><td>Hold</td></t<>  | LAB USE                     |               | FIELD CODE             |             |        | Volume / Arr | WATER     | SOIL   | AIR   | SLUDGE      | HCI               | HNO3         | H₂SO₄         | NaOH  | ICE<br>MONE | NONE    | DATE        |              | TIME   | 1     | BTEX 8021<br>TPH 418.17 | TPH 8015 G | PAH 8270 / 6 | Total Metals Ac | TCLP Metals | TCLP Semi             | TCLP Pestic                     | RCI                                  | GC/MS Vol.                     | GC/MS Sem             | PCB's 8082   | Pesticides 8(  | BUD, 155, F |       |           |              |          |       | Turn Around | Hold     |
| 203934       N Side       I       X       Varies (Sop       On all Samples)         935       S Side       I       X       Varies (Sop       On all Samples)         934       Load Ine Side       I       X       Varies (Sop       On all Samples)         934       Load Ine Side       I       X       Varies (Sop       On all Samples)         934       Load Ine Side       I       X       Varies (Sop       On all Samples)         937       N Side       I       X       Varies (Sop       On all Samples)         937       N Side       I       X       Varies (Sop       On all Samples)         937       N Side       I       X       Varies (Sop       On all Samples)         937       N Side       I       X       Varies (Sop       On all Samples)         938       Side       I       X       Varies (Sop       On all Samples)         Automation (Sop       Intelle Sop       Intelle Sop       On all Samples)       All Samples         Automation (Sop       Intelle Sop       Intelle Sop       On all Samples)       On all Samples)         Relinguished by:       Company:       Date:       Time:       Intele Side (Sop       On all Samples)  |                             | TANK          |                        |             |        | 1            |           |        |       |             |                   |              |               |       |             |         |             | 1            |        |       |                         | B          | R            | X               | T           | PAL                   | 1(                              | $\mathcal{D}_{\boldsymbol{\lambda}}$ | ed                             | . 6                   | 5            | 20             | ),          | Č,    | 4         |              |          |       | X           |          |
| 955       \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | 203934                      | NSI           | le                     |             | 1      |              |           | X      |       |             |                   |              |               | >     | ٢           |         | 7/27/       | 991          | 500    |       |                         | Τ          | 3            | 1               | de          | 0.0                   | sa                              | N                                    | a                              | le                    | 1            | /              |             |       | T         |              |          |       |             |          |
| 934       Load Ine Side       I       X       X       1520       Email nesulto fo:<br>dices in addressito fo:<br>dices | 935                         | SSI           | 40.                    |             | 1      |              |           | χ      |       |             |                   |              |               | 9     | <u>&lt;</u> |         | 1           | -            |        |       |                         |            |              |                 | T           |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       |             |          |
| Spender       Image: Spend  | 936                         |               |                        | k.          | l      |              |           |        |       |             |                   |              |               | )     | K           |         |             | 1            | 620    |       |                         | E          | M            | zi              | 20          | as                    | u                               | t                                    | <b>,</b> -                     | to                    | ;"           |                |             |       |           |              |          |       |             |          |
| 937       N SIAC       I       X       X       1/540       CIMULAC & Mach Correction of the correction of t   |                             | _             |                        |             |        |              |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            |              | tic             |             | 5                     | hi                              | n                                    | d                              | 4                     | )5           | ch.            | all         | b     | 2/.       | n            | 01       |       |             |          |
| 9.38       S S (de       1       X       X       1/600         Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST   |                             | Sepena        | for                    |             |        |              |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            | 7            | Z               | 45          | d                     | 14                              | $D_{c}$                              | in                             | a                     | w            | 2 A            | D           | '. C  | 00        | h            |          |       |             |          |
| Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST  | 937                         | N             | side                   |             | 1      |              |           | X      |       |             |                   |              |               | T     | X           |         |             | 1            | 540    |       |                         |            | C            | N               | w           | 18                    | K                               | a                                    |                                | N                     | e            |                | k           | or    | 21        |              |          |       |             |          |
| Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST  | 938                         | Ss            | de.                    |             | 1      |              |           | X      |       |             |                   |              |               | >     | ۲           |         | t           | 1            | 600    |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       |             |          |
| Multiplication       Multiplication       OBSC       ONLY       ASAP         Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       INST       Intactor N       Massing ASAP         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       INST       Intactor N       Massing Required         Relinquished by:       Company:       Date:       Time:       INST       Dry Weight Basis Required       TRP Report Required         Relinquished by:       Company:       Date:       Trace       1.29°       OBS 26.0°       Trace       F 7.29°       Trace       Cog.un-Review       Check If Special Reporting         Log.un-Review       Courd FOX       Trace       1.29°       Q: 50°       OBS 26.0°       Cog.un-Review       Check If Special Reporting   |                             |               |                        |             |        |              |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          |       | <u> </u>    |          |
| Multiplication       Multiplication       OBSC       ONLY       ASAP         Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       INST       Intaction       No  |                             |               |                        |             |        |              |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       |              |                |             |       |           |              |          | ļ     | ļ           |          |
| Multiplication       Multiplication       OBSC       ONLY       ASAP         Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       INST       Intaction       No  |                             |               |                        |             |        | <u> </u>     |           |        |       |             |                   |              |               |       |             |         |             |              |        |       |                         |            |              |                 |             | ⊥                     |                                 |                                      |                                |                       |              |                |             |       |           |              | <u> </u> |       |             | <u> </u> |
| Relinquished by:       Company:       Date:       Time:       Received by:       Company:       Date:       Time:       INST_OBS_OC<br>COR       Intactor N<br>Headspace Y/NNA       Intactor N<br>Headspace Y/NNA       NO ICE         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       NO ICE         Relinquished by:       Company:       Date:       Time:       Company:       Date:       Time:       NO ICE         Relinquished by:       Company:       Date:       Time:       INST P       OBS 26.0° C       TRRP Report Required         Court FOX       Trace       1.29.0°       Africe       0.85.26.0° C       Cogen-Review       Check If Special Reporting         Limits Are Needed       Limits Are Needed       Director       Cogen-Review       Cogen-Review       Cogen-Review   | Relinquish                  | Findle        | Company:               |             |        |              |           | ceiv   | ved b | y:          | C                 | omp          | bany          | :     | Da          | te:     | Tin         | 1 <b>e</b> : | OBS    |       |                         |            |              |                 |             |                       |                                 |                                      |                                |                       | )            |                |             |       |           |              |          |       |             |          |
| Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST P<br>COUNTEDX TACE 1-29-09 A: 50 OBS 26.0° CF 7-29<br>ACC COR 25-50 COR 2  | Relinduish                  | ed by:        | Company:               | ·····       |        |              |           | ceiv   | ed b  | iy:         |                   | •            | -             |       |             |         |             | 1e:          | OBS    | _     |                         | -1         | -            |                 |             | NA                    |                                 |                                      |                                |                       |              |                |             | 1     | <u>Jc</u> | <u>&gt;`</u> | دو       |       |             |          |
| Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. 25.8 1977541.0195   | Relinquish                  | ied by:       | Company:               | Date:       | T      | ime:         | Re        | )      |       |             | c<br>K            | omp          | oany<br>کرد ( | ع 1   | Da<br>P     | 1.09    | Tin<br>Q    | 50           | INST   | P     |                         | 1          |              |                 |             | 2                     | П<br> <br> С                    | RRP                                  | Rep                            | port<br>Spec          | Req<br>ial R | uired<br>Repor | l           |       |           |              |          |       |             |          |
| OPIGINAL COPY   | Submittal o                 | f samples c   | onstitutes agree       | ment to Ter | rms ar |              |           | ns lis | sted  | on re       | verse             | e sid        | le of         | C. C  | ). C.       |         |             |              |        | 25    | .8                      |            |              |                 |             | 25                    |                                 |                                      |                                | _                     | _            | _              |             |       |           |              |          |       |             |          |

### **Summary Report**

Dick Schmidt Viejo Holding Company 5410 Bee Caves Road Austin, Tx 78746

Report Date: August 11, 2009

Work Order: 9081008

| Project Location: | State MTS #2 Wellsite, NM |
|-------------------|---------------------------|
| Project Name:     | State MTS #2 Well Site    |
| Project Number:   | State MTS #2 Remediation  |

|        |                                    |        | Date       | Time  | Date       |
|--------|------------------------------------|--------|------------|-------|------------|
| Sample | Description                        | Matrix | Taken      | Taken | Received   |
| 205254 | Oil Tank Area Remediation @ 5'     | soil   | 2009-08-07 | 16:00 | 2009-08-10 |
| 205255 | Oil Tank Area Remediation @ 10.5'  | soil   | 2009-08-07 | 18:10 | 2009-08-10 |
| 205256 | Seperator Area Remediation @ 4'    | soil   | 2009-08-07 | 16:20 | 2009-08-10 |
| 205257 | Seperator Area Remediation @ 8'    | soil   | 2009-08-07 | 17:30 | 2009-08-10 |
| 205258 | Background For All                 | soil   | 2009-08-07 | 18:40 | 2009-08-10 |
| 205259 | Water Tank Area Remediation @ 1'   | soil   | 2009-08-07 | 16:10 | 2009-08-10 |
| 205260 | Water Tank Area Remediation @ 2.5' | soil   | 2009-08-07 | 18:20 | 2009-08-10 |

|   | B                 | TEX        |          | MTBE    | TPH DRO | TPH GRO |
|---|-------------------|------------|----------|---------|---------|---------|
|   | Benzene Toluene E | thylbenzer | e Xylene | MTBE    | DRO     | GRO     |
| Sample - Field Code                         | (mg/Kg) (mg/Kg)   | (mg/Kg)    | (mg/Kg)  | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| 205254 - Oil Tank Area Remediation @ 5'     | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205255 - Oil Tank Area Remediation @ 10.5'  | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205256 - Seperator Area Remediation @ 4'    | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205257 - Seperator Area Remediation @ 8'    | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205258 - Background For All                 | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205259 - Water Tank Area Remediation @ 1'   | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |
| 205260 - Water Tank Area Remediation @ 2.5' | <0.0200<0.0200    | < 0.0200   | < 0.0200 |         | <50.0   | <2.00   |

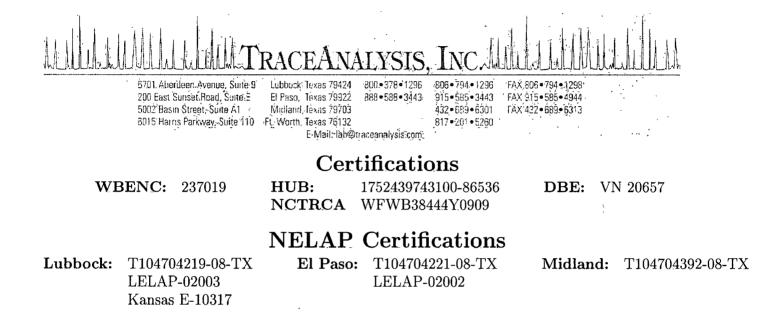
#### Sample: 205254 - Oil Tank Area Remediation @ 5'

| Param    | Flag | Result | Units | $\mathbf{RL}$ |
|----------|------|--------|-------|---------------|
| Chloride |      | 1330   | mg/Kg | 3.25          |

#### Sample: 205255 - Oil Tank Area Remediation @ 10.5'

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

| Report Date: Aug | ust 11, 2009         | Work Order: 9081008 | Page  | Number: 2 of 2      |
|------------------|----------------------|---------------------|-------|---------------------|
| Param            | Flag                 | Result              | Units | RL                  |
| Chloride         |                      | 377                 | mg/Kg | 3.25                |
| Sample: 205256   | - Seperator Area Ren | nediation @ 4'      |       |                     |
| Param            | Flag                 | Result              | Units | RL                  |
| Chloride         |                      | 2000                | mg/Kg | 3.25                |
| Sample: 205257   | - Seperator Area Ren | nediation @ 8'      |       |                     |
| Param            | Flag                 | Result              | Units | $\operatorname{RL}$ |
| Chloride         |                      | 377                 | mg/Kg | 3.25                |
| Sample: 205258   | - Background For All |                     |       |                     |
| Param            | Flag                 | Result              | Units | $\operatorname{RL}$ |
| Chloride         |                      | 396                 | mg/Kg | 3.25                |
| Sample: 205259   | - Water Tank Area R  | emediation @ 1'     |       |                     |
| Param            | Flag                 | $\mathbf{Result}$   | Units | $\operatorname{RL}$ |
| Chloride         |                      | 2810                | mg/Kg | 3.25                |
| Sample: 205260   | - Water Tank Area R  | emediation @ 2.5'   |       |                     |
| Param            | Flag                 | Result              | Units | $\operatorname{RL}$ |
| Chloride         |                      | 430                 | mg/Kg | 3.25                |



### Analytical and Quality Control Report

Dick Schmidt Viejo Holding Company 5410 Bee Caves Road Austin, Tx, 78746

Report Date: August 11, 2009

Work Order: 9081008

Project Location:State MTS #2 Wellsite, NMProject Name:State MTS #2 Well SiteProject Number:State MTS #2 Remediation

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

|        |                                    |        | Date       | $\mathbf{Time}$ | Date       |
|--------|------------------------------------|--------|------------|-----------------|------------|
| Sample | Description                        | Matrix | Taken      | Taken           | Received   |
| 205254 | Oil Tank Area Remediation @ 5'     | soil   | 2009-08-07 | 16:00           | 2009-08-10 |
| 205255 | Oil Tank Area Remediation @ 10.5'  | soil   | 2009-08-07 | 18:10           | 2009-08-10 |
| 205256 | Seperator Area Remediation @ 4'    | soil   | 2009-08-07 | 16:20           | 2009-08-10 |
| 205257 | Seperator Area Remediation @ 8'    | soil   | 2009-08-07 | 17:30           | 2009-08-10 |
| 205258 | Background For All                 | soil   | 2009-08-07 | 18:40           | 2009-08-10 |
| 205259 | Water Tank Area Remediation @ 1'   | soil   | 2009-08-07 | 16:10           | 2009-08-10 |
| 205260 | Water Tank Area Remediation @ 2.5' | soil   | 2009-08-07 | 18:20           | 2009-08-10 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

#### **Standard Flags**

 $\,B\,$  - The sample contains less than ten times the concentration found in the method blank.

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### **Case Narrative**

Samples for project State MTS #2 Well Site were received by TraceAnalysis, Inc. on 2009-08-10 and assigned to work order 9081008. Samples for work order 9081008 were received intact at a temperature of 13.3 deg. C (on ice).

Samples were analyzed for the following tests using their respective methods.

|                      |              | Prep                   | Prep                | $\mathbf{QC}$ | Analysis              |
|----------------------|--------------|------------------------|---------------------|---------------|-----------------------|
| Test                 | Method       | $\operatorname{Batch}$ | Date                | Batch         | Date                  |
| BTEX                 | S 8021B      | 53150                  | 2009-08-10 at 11:19 | 62301         | 2009-08-10 at 11:19   |
| Chloride (Titration) | SM 4500-Cl B | 53143                  | 2009-08-10 at 12:29 | 62294         | 2009-08-10 at 12:30   |
| TPH DRO              | Mod. 8015B   | 53154                  | 2009-08-10 at 15:00 | 62311         | 2009-08-10 at $16:00$ |
| TPH GRO              | S 8015B      | 53150                  | 2009-08-10 at 11:19 | 62302         | 2009-08-10 at $11:19$ |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9081008 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These guality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

### **Analytical Report**

#### Sample: 205254 - Oil Tank Area Remediation @ 5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>62301<br>53150 |      | Analytical I<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-08-10<br>2009-08-10 |        | Prep Meth<br>Analyzed 1<br>Prepared 1 | By: MT              |
|--|-----------------------------------|------|--|-------|-------------------------------------|--------|---------------------------------------|---------------------|
|  |                                   |      | $\mathbf{RL}$                            |       |                                     |        |                                       |                     |
| Parameter  | Flag                              |      | $\mathbf{Result}$                        |       | Units                               | Di     | lution                                | $\operatorname{RL}$ |
| Benzene  |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                     | 0.0200              |
| Toluene  |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                     | 0.0200              |
| Ethylbenzene   | è.                                |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                     | 0.0200              |
| Xylene   |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                     | 0.0200              |
|  |                                   |      |  |       |                                     | Spike  | Percent                               | Recovery            |
| Surrogate  |                                   | Flag | Result                                   | Units | Dilution                            | Amount | Recovery                              | Limits              |
| Trifluorotolu  | ene (TFT)                         | 1    | 2.31                                     | mg/Kg | 1                                   | 2.00   | 116                                   | 71.8 - 112          |
| 4-Bromofluor   | obenzene (4-BFB)                  | 2    | 2.48                                     | mg/Kg | 1                                   | 2.00   | 124                                   | 72.8 - 115          |

#### Sample: 205254 - Oil Tank Area Remediation @ 5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>Chloride (Titration)<br>62294<br>53143 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-08-10<br>2009-08-10 | Prep Method:<br>Analyzed By:<br>Prepared By: | ΚV                  |
|--|---|---|--|--|---------------------|
|  |   | $\mathbf{RL}$   |  |  |                     |
| Parameter  | Flag  | Result  | Units                                    | Dilution                                     | $\operatorname{RL}$ |
| Chloride   | ······  | 1330  | mg/Kg                                    | 10   | 3.25                |

#### Sample: 205254 - Oil Tank Area Remediation @ 5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH DRO<br>62311<br>53154 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | Mod. 8015B<br>2009-08-10<br>2009-08-10 | Prep Method:<br>Analyzed By:<br>Prepared By: | N/A           |
|--|--------------------------------------|---|--|--|---------------|
|  |                                      | RL  |  |  |               |
| Parameter  | $\mathbf{Flag}$                      | Result  | Units                                  | Dilution                                     | $\mathbf{RL}$ |
| DRO  |                                      | <50.0   | mg/Kg                                  | 1  | 50.0          |

<sup>1</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>2</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009<br>State MTS #2 Remediation |      |        |       | Order: 9081008 | Page Number: 5 of 20<br>State MTS #2 Wellsite, NM |                     |                    |
|--|------|--------|-------|----------------|---|---------------------|--------------------|
| Surrogate  | Flag | Result | Units | Dilution       | Spike<br>Amount                                   | Percent<br>Recovery | Recovery<br>Limits |
| n-Triacontane  |      | 94.6   | mg/Kg | 1              | 100   | 95                  | 46.6 - 172         |

#### Sample: 205254 - Oil Tank Area Remediation @ 5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>62302<br>53150 |      | Analytical<br>Date Anal<br>Sample Pr |                  | S 8015B<br>2009-08-10<br>2009-08-10 |                         | Prep Meth<br>Analyzed<br>Prepared 1 | By: MT        |
|--|--------------------------------------|------|--------------------------------------|------------------|-------------------------------------|-------------------------|-------------------------------------|---------------|
|  |                                      |      | $\mathbf{RL}$                        |                  |                                     |                         |                                     |               |
| Parameter  | $\mathbf{Flag}$                      |      | Result                               |                  | $\mathbf{Units}$                    | D                       | ilution                             | $\mathbf{RL}$ |
| GRO  |                                      |      | <2.00                                |                  | mg/Kg                               |                         | 1                                   | 2.00          |
|  |                                      |      |                                      |                  |                                     | Spike                   | Percent                             | Recovery      |
| Surrogate  |                                      | Flag | $\mathbf{Result}$                    | $\mathbf{Units}$ | Dilution                            | $\operatorname{Amount}$ | Recovery                            | Limits        |
| Trifluorotolu  | ene (TFT)                            | 3    | 2.34                                 | mg/Kg            | 1                                   | 2.00                    | 117                                 | 86.9 - 113    |
| 4-Bromofluorobenzene (4-BFB)                         |                                      |      | 2.13                                 | mg/Kg            | 1                                   | 2.00                    | 106                                 | 56.2 - 130    |

#### Sample: 205255 - Oil Tank Area Remediation @ 10.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>62301<br>53150 |      |      | Analytical<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-08-10<br>2009-08-10 |                                       | Prep Meth<br>Analyzed<br>Prepared I | By: MT        |
|--|-----------------------------------|------|------|--|-------|-------------------------------------|---------------------------------------|-------------------------------------|---------------|
|  |                                   |      |      | $\operatorname{RL}$                    |       |                                     |                                       |                                     |               |
| Parameter  | I                                 | Flag |      | Result                                 |       | $\mathbf{Units}$                    | D                                     | ilution                             | $\mathbf{RL}$ |
| Benzene  |                                   |      |      | < 0.0200                               |       | mg/Kg                               |                                       | 1                                   | 0.0200        |
| Toluene  |                                   |      |      | < 0.0200                               |       | mg/Kg                               |                                       | 1                                   | 0.0200        |
| Ethylbenzene   |                                   |      |      | < 0.0200                               |       | mg/Kg                               |                                       | 1                                   | 0.0200        |
| Xylene   |                                   |      |      | < 0.0200                               |       | mg/Kg                               | · · · · · · · · · · · · · · · · · · · | 1                                   | 0.0200        |
|  |                                   |      |      |  |       |                                     | Spike                                 | Percent                             | Recovery      |
| Surrogate  |                                   |      | Flag | Result                                 | Units | Dilution                            | Amount                                | Recovery                            | Limits        |
| Trifluorotolue                                       | ne (TFT)                          |      | 4    | 2.29                                   | mg/Kg | 1                                   | 2.00                                  | 114                                 | 71.8 - 112    |
| 4-Bromofluor   | obenzene (4-BF                    | B)   | 5    | 2.50                                   | mg/Kg | 1                                   | 2.00                                  | 125                                 | 72.8 - 115    |

#### Sample: 205255 - Oil Tank Area Remediation @ 10.5'

| Laboratory: | Lubbock              |                     |              |              |                        |
|-------------|----------------------|---------------------|--------------|--------------|------------------------|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A                    |
| QC Batch:   | 62294                | Date Analyzed:      | 2009-08-10   | Analyzed By: | кv                     |
| Prep Batch: | 53143                | Sample Preparation: | 2009-08-10   | Prepared By: | $\mathbf{K}\mathbf{V}$ |

<sup>3</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>4</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>5</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009<br>State MTS #2 Remediation |                       |                   | er: 9081008<br>#2 Well Site | Page Number: 6 of 20<br>State MTS #2 Wellsite, NM |                     |  |
|--|-----------------------|-------------------|-----------------------------|---|---------------------|--|
| -  |                       | RL                | <b></b>                     |   | DI                  |  |
| Parameter  | $\operatorname{Flag}$ | $\mathbf{Result}$ | $\mathbf{Units}$            | Dilution  | $\operatorname{RL}$ |  |
| Chloride   |                       | 377               | m mg/Kg                     | 10  | 3.25                |  |

#### Sample: 205255 - Oil Tank Area Remediation @ 10.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH DRO<br>62311<br>53154 | I DRO<br>1 |                   | ed: 200  | d. 8015B<br>9-08-10<br>9-08-10 | Analyz   | Method: N/A<br>zed By:<br>red By: |
|--|--------------------------------------|------------|-------------------|----------|--------------------------------|----------|-----------------------------------|
|  |                                      |            | $\mathbf{RL}$     |          |                                |          |                                   |
| Parameter  | Fla                                  | ag         | $\mathbf{Result}$ |          | Units                          | Dilution | $\operatorname{RL}$               |
| DRO  |                                      |            | <50.0             | m        | g/Kg                           | 1        | 50.0                              |
|  |                                      |            |                   |          | Spike                          | Percent  | Recovery                          |
| Surrogate  | Flag                                 | Result     | Units             | Dilution | Amount                         | Recovery | Limits                            |
| n-Triacontan   | e                                    | 93.5       | mg/Kg             | 1        | 100                            | 94       | 46.6 - 172                        |

#### Sample: 205255 - Oil Tank Area Remediation @ 10.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>62302<br>53150 |      | Analytical<br>Date Anal<br>Sample Pr | yzed: | S 8015B<br>2009-08-10<br>2009-08-10 |                 | Prep Meth<br>Analyzed<br>Prepared 1 | By: MT              |
|--|--------------------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|-------------------------------------|---------------------|
|  |                                      |      | $\mathbf{RL}$                        |       |                                     |                 |                                     |                     |
| Parameter  | $\mathbf{Flag}$                      |      | $\mathbf{Result}$                    |       | Units                               | D               | ilution                             | $\operatorname{RL}$ |
| GRO  |                                      |      | <2.00                                |       | m mg/Kg                             |                 | 1                                   | 2.00                |
| Surrogate  |                                      | Flag | Result                               | Units | Dilution                            | Spike<br>Amount | Percent<br>Recovery                 | Recovery<br>Limits  |
| Trifluorotolue                                       | ene (TFT)                            | 6    | 2.34                                 | mg/Kg | 1                                   | 2.00            | 117                                 | 86.9 - 113          |
| 4-Bromofluor   | obenzene (4-BFB)                     |      | 2.14                                 | mg/Kg | 1                                   | 2.00            | 107                                 | 56.2 - 130          |

#### Sample: 205256 - Seperator Area Remediation @ 4'

| Laboratory: | Lubbock |                     |            |              |               |
|-------------|---------|---------------------|------------|--------------|---------------|
| Analysis:   | BTEX    | Analytical Method:  | S 8021B    | Prep Method: | S 5035        |
| QC Batch:   | 62301   | Date Analyzed:      | 2009-08-10 | Analyzed By: | MT            |
| Prep Batch: | 53150   | Sample Preparation: | 2009-08-10 | Prepared By: | $\mathbf{MT}$ |

<sup>6</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009<br>State MTS #2 Remediation |      |              | Work Order: 9081008<br>State MTS #2 Well Site |          |        | Page Number: 7 of 20<br>State MTS #2 Wellsite, NM |            |  |
|--|------|--------------|---|----------|--------|---|------------|--|
|  |      | RL           | I   |          |        |   |            |  |
| Parameter Flag   |      | Result Units |   | Di       | lution | $\mathbf{RL}$                                     |            |  |
| Benzene  |      | < 0.0200     |   | mg/Kg    |        | 1   | 0.0200     |  |
| Toluene  |      | < 0.0200     | )   | mg/Kg    |        | 1   | 0.0200     |  |
| Ethylbenzene   |      | < 0.0200     | •   | mg/Kg    |        | 1   | 0.0200     |  |
| Xylene   |      | < 0.0200     |   | mg/Kg    |        | 1   | 0.0200     |  |
|  |      |              |   |          | Spike  | Percent   | Recovery   |  |
| Surrogate  | Flag | Result       | Units   | Dilution | Amount | Recovery  | Limits     |  |
| Trifluorotoluene (TFT)                                   |      | 2.24         | mg/Kg   | 1        | 2.00   | 112   | 71.8 - 112 |  |
| 4-Bromofluorobenzene (4-BFB)                             | 7    | 2.41         | mg/Kg   | 1        | 2.00   | 120   | 72.8 - 115 |  |

## Sample: 205256 - Seperator Area Remediation @ 4'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>Chloride (Titration)<br>62294<br>53143 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-08-10<br>2009-08-10 | Prep Method:<br>Analyzed By:<br>Prepared By: | ΚV            |
|--|---|---|--|--|---------------|
|  |   | RL  |  |  |               |
| Parameter  | Flag  | Result  | Units                                    | Dilution                                     | $\mathbf{RL}$ |
| Chloride   |   | 2000 1  | mg/Kg                                    | 100  | 3.25          |

#### Sample: 205256 - Seperator Area Remediation @ 4'

| Laboratory:LubbockAnalysis:TPH DROQC Batch:62311Prep Batch:53154 |     |      | Analytical Metho<br>Date Analyzed:<br>Sample Preparatio |                  | d:    | Mod. 801<br>2009-08-1<br>2009-08-1 | 0               | Analy               | Method: N/A<br>zed By:<br>red By: |
|--|-----|------|---|------------------|-------|------------------------------------|-----------------|---------------------|-----------------------------------|
| D. (   |     | 171  |   | RL               |       | <b>TT</b> •/                       |                 |                     | DI                                |
| Parameter  |     | Flag |   | Result           |       | Units                              |                 | Dilution            | RL                                |
| DRO  |     |      |   | <50.0            |       | mg/Kg                              |                 | 1                   | 50.0                              |
| Surrogate  | Fla | g    | Result  | $\mathbf{Units}$ | Dilut | ion                                | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits                |
| n-Triacontan   | e   |      | 93.1  | mg/Kg            | 1     |                                    | 100             | 93                  | 46.6 - 172                        |

#### Sample: 205256 - Seperator Area Remediation @ 4'

| Laboratory: | Lubbock |                     |            |              |               |
|-------------|---------|---------------------|------------|--------------|---------------|
| Analysis:   | TPH GRO | Analytical Method:  | S 8015B    | Prep Method: | S 5035        |
| QC Batch:   | 62302   | Date Analyzed:      | 2009-08-10 | Analyzed By: | $\mathbf{MT}$ |
| Prep Batch: | 53150   | Sample Preparation: | 2009-08-10 | Prepared By: | MT            |

<sup>7</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009<br>State MTS #2 Remediation |   |      |                            | k Order: 90<br>MTS #2 W |          | Page Number: 8 of 20<br>State MTS #2 Wellsite, NM |                     |                          |  |
|--|---|------|----------------------------|-------------------------|----------|---|---------------------|--------------------------|--|
| Parameter Flag   |   |      | $\operatorname{RL}$ Result |                         | Units    | D   | Dilution R.         |                          |  |
| GRO  |   |      | <2.00                      |                         | mg/Kg    |   | 1                   | 2.00                     |  |
| Surrogate  |   | Flag | Result                     | Units                   | Dilution | Spike<br>Amount                                   | Percent<br>Recovery | Recovery<br>Limits       |  |
| Trifluorotoluene (TI<br>4-Bromofluorobenze               | , | 8    | 2.27 $2.06$                | mg/Kg<br>mg/Kg          | 1<br>1   | $\begin{array}{c} 2.00\\ 2.00\end{array}$         | 114<br>103          | 86.9 - 113<br>56.2 - 130 |  |

## Sample: 205257 - Seperator Area Remediation @ 8'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>62301<br>53150 |      | Analytical I<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-08-10<br>2009-08-10 |        | Prep Metl<br>Analyzed<br>Prepared | By: MT        |
|--|-----------------------------------|------|--|-------|-------------------------------------|--------|-----------------------------------|---------------|
|  |                                   |      | $\operatorname{RL}$                      |       |                                     |        |                                   |               |
| Parameter  | Fla                               | g    | Result                                   |       | $\mathbf{Units}$                    | Ι      | Dilution                          | $\mathbf{RL}$ |
| Benzene  |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                 | 0.0200        |
| Toluene  |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                 | 0.0200        |
| Ethylbenzene   | •                                 |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                 | 0.0200        |
| Xylene   |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                 | 0.0200        |
|  |                                   |      |  |       |                                     | Spike  | Percent                           | Recovery      |
| Surrogate  |                                   | Flag | Result                                   | Units | Dilution                            | Amount | Recovery                          | Limits        |
| Trifluorotolue                                       | ene (TFT)                         | 9    | 2.36                                     | mg/Kg | 1                                   | 2.00   | 118                               | 71.8 - 112    |
| 4-Bromofluor   | obenzene (4-BFB)                  | 10   | 2.52                                     | mg/Kg | 1                                   | 2.00   | 126                               | 72.8 - 115    |

#### Sample: 205257 - Seperator Area Remediation @ 8'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Chloride (Titration)<br>62294 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-08-10<br>2009-08-10 | Prep Method:<br>Analyzed By:<br>Prepared By: | KV            |
|--|-------------------------------|---|--|--|---------------|
|  |                               | $\operatorname{RL}$   |  |  |               |
| Parameter  | $\mathbf{Flag}$               | Result  | Units                                    | Dilution                                     | $\mathbf{RL}$ |
| Chloride   |                               | 377   | mg/Kg                                    | 10   | 3.25          |

## Sample: 205257 - Seperator Area Remediation @ 8'

| Laboratory: | Lubbock |                     |            |                  |
|-------------|---------|---------------------|------------|------------------|
| Analysis:   | TPH DRO | Analytical Method:  | Mod. 8015B | Prep Method: N/A |
| QC Batch:   | 62311   | Date Analyzed:      | 2009-08-10 | Analyzed By:     |
| Prep Batch: | 53154   | Sample Preparation: | 2009-08-10 | Prepared By:     |

<sup>8</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>9</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>10</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009 | Work Order: 9081008    | Page Number: 9 of 20      |  |  |
|------------------------------|------------------------|---------------------------|--|--|
| State MTS #2 Remediation     | State MTS #2 Well Site | State MTS #2 Wellsite, NM |  |  |
|                              |                        |                           |  |  |

| Parameter     | Fla         | g      | $\operatorname{RL}$ Result | Uni      | its             | Dilution            | $\operatorname{RL}$ |
|---------------|-------------|--------|----------------------------|----------|-----------------|---------------------|---------------------|
| DRO           | <50.0 mg/Kg |        | Kg                         | 1        | 50.0            |                     |                     |
| Surrogate     | Flag        | Result | Units                      | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits  |
| n-Triacontane | - Q         | 102    | mg/Kg                      | 1        | 100             | 102                 | 46.6 - 172          |

## Sample: 205257 - Seperator Area Remediation @ 8'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>62302<br>53150 |      | Analytical<br>Date Anal<br>Sample Pr | yzed: | S 8015B<br>2009-08-10<br>2009-08-10 |                 | Prep Meth<br>Analyzed<br>Prepared | By: MT             |
|--|--------------------------------------|------|--------------------------------------|-------|-------------------------------------|-----------------|-----------------------------------|--------------------|
|  |                                      |      | $\mathbf{RL}$                        |       |                                     |                 |                                   |                    |
| Parameter  | $\mathbf{Flag}$                      |      | Result                               |       | $\mathbf{Units}$                    | D               | ilution                           | $\mathbf{RL}$      |
| GRO  |                                      |      | <2.00                                |       | mg/Kg                               |                 | 1                                 | 2.00               |
| Surrogate  |                                      | Flag | Result                               | Units | Dilution                            | Spike<br>Amount | Percent<br>Recovery               | Recovery<br>Limits |
| Trifluorotolue                                       | ene (TFT)                            | 11   | 2.43                                 | mg/Kg | 1                                   | 2.00            | 122                               | 86.9 - 113         |
|  | obenzene (4-BFB)                     |      | 2.17                                 | mg/Kg | 1                                   | 2.00            | 108                               | 56.2 - 130         |

#### Sample: 205258 - Background For All

| Laboratory:LubbockAnalysis:BTEXQC Batch:62301Prep Batch:53150 |     |      | Analytical I<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-08-10<br>2009-08-10 |        | Prep Meth<br>Analyzed<br>Prepared I | By: MT        |
|---|-----|------|--|-------|-------------------------------------|--------|-------------------------------------|---------------|
|   |     |      | $\mathbf{RL}$                            |       |                                     | •      |                                     |               |
| Parameter H   | lag |      | $\mathbf{Result}$                        |       | Units                               | Di     | lution                              | $\mathbf{RL}$ |
| Benzene   |     |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
| Toluene   |     |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
| ${f Ethylbenzene}$  |     |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
| Xylene  |     |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
|   |     |      |  |       |                                     | Spike  | Percent                             | Recovery      |
| Surrogate   | ]   | Flag | Result                                   | Units | Dilution                            | Amount | Recovery                            | Limits        |
| Trifluorotoluene (TFT)  |     |      | 2.20                                     | mg/Kg | 1                                   | 2.00   | 110                                 | 71.8 - 112    |
| 4-Bromofluorobenzene (4-BF)                                   | B)  | 12   | 2.37                                     | mg/Kg | 1                                   | 2.00   | 118                                 | 72.8 - 115    |

<sup>11</sup>High surrogate recovery. Sample non-detect, result bias high. <sup>12</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August 11, 2009 | Work Order: 9081008      | Page Number: 10 of 20        |
|------------------------------|--------------------------|------------------------------|
| State MTS $\#2$ Remediation  | State MTS $#2$ Well Site | State MTS $\#2$ Wellsite, NM |

# Sample: 205258 - Background For All

| Laboratory: | Lubbock              |                     |              |              |                     |
|-------------|----------------------|---------------------|--------------|--------------|---------------------|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A                 |
| QC Batch:   | 62294                | Date Analyzed:      | 2009-08-10   | Analyzed By: | KV                  |
| Prep Batch: | 53143                | Sample Preparation: | 2009-08-10   | Prepared By: | $\mathbf{KV}$       |
|             |                      | DI                  |              |              |                     |
|             |                      | $\mathbf{RL}$       |              |              |                     |
| Parameter   | $\mathbf{Flag}$      | $\mathbf{Result}$   | Units        | Dilution     | $\operatorname{RL}$ |
| Chloride    |                      | 396                 | mg/Kg        | 10           | 3.25                |

## Sample: 205258 - Background For All

| Laboratory:LubbockAnalysis:TPH DROQC Batch:62311Prep Batch:53154 |                 | Analytical Me<br>Date Analyze<br>Sample Prepa | d: 200              | d. 8015B<br>99-08-10<br>99-08-10 | Analyz | fethod: N/A<br>ed By:<br>ed By: |            |
|--|-----------------|---|---------------------|----------------------------------|--------|---------------------------------|------------|
|  |                 |   | $\operatorname{RL}$ |                                  |        |                                 |            |
| Parameter  | Fla             | 3   | Result              |                                  | Units  | Dilution                        | RL         |
| DRO  |                 |   | <50.0               | n                                | ng/Kg  | 1                               | 50.0       |
|  |                 |   |                     |                                  | Spike  | Percent                         | Recovery   |
| Surrogate  | Flag            | Result  | Units               | Dilution                         | Amount | Recovery                        | Limits     |
| n-Triacontan   | e <sup>13</sup> | 184   | mg/Kg               | 1                                | 100    | 184                             | 46.6 - 172 |

## Sample: 205258 - Background For All

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>62302<br>53150 |      | Analytical<br>Date Anal<br>Sample Pr |                  | S 8015B<br>2009-08-10<br>2009-08-10 |                         | Prep Meth<br>Analyzed I<br>Prepared I |               |
|--|--------------------------------------|------|--------------------------------------|------------------|-------------------------------------|-------------------------|---------------------------------------|---------------|
|  |                                      |      | $\mathbf{RL}$                        |                  |                                     |                         |                                       |               |
| Parameter  | Elag                                 |      | $\mathbf{Result}$                    |                  | Units                               | D                       | ilution                               | $\mathbf{RL}$ |
| GRO  |                                      |      | <2.00                                |                  | mg/Kg                               |                         | 1                                     | 2.00          |
| _  |                                      |      |                                      |                  |                                     | Spike                   | Percent                               | Recovery      |
| Surrogate  |                                      | Flag | Result                               | $\mathbf{Units}$ | Dilution                            | $\operatorname{Amount}$ | Recovery                              | Limits        |
| Trifluorotolue                                       | ene (TFT)                            | 14   | 2.28                                 | mg/Kg            | 1                                   | 2.00                    | 114                                   | 86.9 - 113    |
| 4-Bromofluor   | obenzene (4-BFB)                     |      | 2.04                                 | mg/Kg            | 1                                   | 2.00                    | 102                                   | 56.2 - 130    |

<sup>13</sup>High surrogate recovery. Sample non-detect, result bias high.
 <sup>14</sup>High surrogate recovery. Sample non-detect, result bias high.

## Sample: 205259 - Water Tank Area Remediation @ 1'

| Analysis:<br>QC Batch: | Lubbock<br>BTEX<br>62301<br>53150 |      | Analytical I<br>Date Analy<br>Sample Pre | zed:             | S 8021B<br>2009-08-10<br>2009-08-10 |        | Prep Meth<br>Analyzed I<br>Prepared I | By: MT        |
|------------------------|-----------------------------------|------|--|------------------|-------------------------------------|--------|---------------------------------------|---------------|
|                        |                                   |      | $\operatorname{RL}$                      |                  |                                     |        |                                       |               |
| Parameter              | Flag                              |      | Result                                   |                  | Units                               | Di     | lution                                | $\mathbf{RL}$ |
| Benzene                |                                   |      | < 0.0200                                 |                  | mg/Kg                               |        | 1                                     | 0.0200        |
| Toluene                |                                   |      | < 0.0200                                 |                  | mg/Kg                               |        | 1                                     | 0.0200        |
| Ethylbenzene           |                                   |      | < 0.0200                                 |                  | mg/Kg                               |        | 1                                     | 0.0200        |
| Xylene                 |                                   |      | < 0.0200                                 |                  | mg/Kg                               |        | 1                                     | 0.0200        |
|                        |                                   |      |  |                  |                                     | Spike  | Percent                               | Recovery      |
| Surrogate              |                                   | Flag | Result                                   | $\mathbf{Units}$ | Dilution                            | Amount | Recovery                              | Limits        |
| Trifluorotoluer        | ne (TFT)                          |      | 2.18                                     | mg/Kg            | 1                                   | 2.00   | 109                                   | 71.8 - 112    |
| 4-Bromofluoro          | obenzene (4-BFB)                  | 15   | 2.36                                     | mg/Kg            | 1                                   | 2.00   | 118                                   | 72.8 - 115    |

#### Sample: 205259 - Water Tank Area Remediation @ 1'

| Laboratory: | Lubbock               |                     |              |              |                     |
|-------------|-----------------------|---------------------|--------------|--------------|---------------------|
| Analysis:   | Chloride (Titration)  | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A                 |
| QC Batch:   | 62294                 | Date Analyzed:      | 2009-08-10   | Analyzed By: | KV                  |
| Prep Batch: | 53143                 | Sample Preparation: | 2009-08-10   | Prepared By: | KV                  |
|             |                       |                     |              |              |                     |
|             |                       | $\mathbf{RL}$       |              |              |                     |
| Parameter   | $\operatorname{Flag}$ | Result              | Units        | Dilution     | $\operatorname{RL}$ |
| Chloride    |                       | 2810                | mg/Kg        | 100          | 3.25                |

## Sample: 205259 - Water Tank Area Remediation @ 1'

| Laboratory:  | Lubbock |        |               |             |        |          |               |
|--------------|---------|--------|---------------|-------------|--------|----------|---------------|
| Analysis:    | TPH DRO |        | Analytical M  | ethod: Mod. | 8015B  | Prep M   | Aethod: N/A   |
| QC Batch:    | 62311   |        | Date Analyze  | d: 2009-0   | 08-10  | Analyz   | red By:       |
| Prep Batch:  | 53154   |        | Sample Prepa  |             | 08-10  |          | ed By:        |
|              |         |        | $\mathbf{RL}$ |             |        |          |               |
| Parameter    | Flag    | 5      | Result        | Ur          | nits   | Dilution | $\mathbf{RL}$ |
| DRO          |         |        | <50.0         | mg/         | Kg     | 1        | 50.0          |
|              |         |        |               |             | Spike  | Percent  | Recovery      |
| Surrogate    | Flag    | Result | Units         | Dilution    | Amount | Recovery | Limits        |
| n-Triacontan | e       | 97.5   | mg/Kg         | 1           | 100    | 98       | 46.6 - 172    |

<sup>15</sup>High surrogate recovery. Sample non-detect, result bias high.

4

## Sample: 205259 - Water Tank Area Remediation @ 1'

| Laboratory:       | Lubbock           |      |                                      |       |                  |              |          |                     |
|-------------------|-------------------|------|--------------------------------------|-------|------------------|--------------|----------|---------------------|
| Analysis:         | TPH GRO           |      | Analytical Method:<br>Date Analyzed: |       | S 8015B          | Prep Method: |          | nod: S 5035         |
| QC Batch:         | 62302             |      |                                      |       | 2009-08-10       |              | Analyzed | By: MT              |
| Prep Batch: 53150 |                   |      |                                      |       | 2009-08-10       |              | Prepared | By: MT              |
|                   |                   |      | $\mathbf{RL}$                        |       |                  |              |          |                     |
| Parameter         | Flag              |      | Result                               |       | $\mathbf{Units}$ | D            | oilution | $\operatorname{RL}$ |
| GRO               |                   |      | <2.00                                |       | mg/Kg            |              | 1        | 2.00                |
|                   |                   |      |                                      |       |                  | Spike        | Percent  | Recovery            |
| Surrogate         |                   | Flag | Result                               | Units | Dilution         | Amount       | Recovery | Limits              |
| Trifluorotolu     | ene (TFT)         |      | 2.24                                 | mg/Kg | 1                | 2.00         | 112      | 86.9 - 113          |
| 4-Bromofluor      | cobenzene (4-BFB) |      | 2.01                                 | mg/Kg | 1                | 2.00         | 100      | 56.2 - 130          |

#### Sample: 205260 - Water Tank Area Remediation @ 2.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>BTEX<br>62301<br>53150 |      | Analytical M<br>Date Analy<br>Sample Pre | zed:  | S 8021B<br>2009-08-10<br>2009-08-10 |        | Prep Meth<br>Analyzed<br>Prepared I | By: MT        |
|--|-----------------------------------|------|--|-------|-------------------------------------|--------|-------------------------------------|---------------|
|  |                                   |      | $\mathbf{RL}$                            |       |                                     |        |                                     |               |
| Parameter  | Flag                              |      | Result                                   |       | Units                               | Di     | lution                              | $\mathbf{RL}$ |
| Benzene  |                                   |      | < 0.0200                                 | -     | mg/Kg                               |        | 1                                   | 0.0200        |
| Toluene  |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
| Ethylbenzene   |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
| Xylene   |                                   |      | < 0.0200                                 |       | mg/Kg                               |        | 1                                   | 0.0200        |
|  |                                   |      |  |       |                                     | Spike  | Percent                             | Recovery      |
| Surrogate  |                                   | Flag | Result                                   | Units | Dilution                            | Amount | Recovery                            | Limits        |
| Trifluorotolue                                       | ene (TFT)                         | 16   | 2.41                                     | mg/Kg | 1                                   | 2.00   | 120                                 | 71.8 - 112    |
| 4-Bromofluor   | obenzene (4-BFB)                  | 17   | 2.53                                     | mg/Kg | 1                                   | 2.00   | 126                                 | 72.8 - 115    |

#### Sample: 205260 - Water Tank Area Remediation @ 2.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Chloride (Titration)<br>62294 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | SM 4500-Cl B<br>2009-08-10<br>2009-08-10 | Prep Method:<br>Analyzed By:<br>Prepared By: | κν         |
|--|-------------------------------|---|--|--|------------|
| Parameter<br>Chloride                                | Flag                          | RL<br>Result<br>430   | Units<br>mg/Kg                           | Dilution<br>10                               | RL<br>3.25 |

<sup>16</sup>High surrogate recovery. Sample non-detect, result bias high.
 <sup>17</sup>High surrogate recovery. Sample non-detect, result bias high.

#### Sample: 205260 - Water Tank Area Remediation @ 2.5'

| Laboratory:  | Lubbock        |                   |                   |                               |        |          |                     |  |  |
|--|----------------|-------------------|-------------------|-------------------------------|--------|----------|---------------------|--|--|
| Analysis:  | TPH DRO        |                   | Analytical Me     | Analytical Method: Mod. 8015B |        |          | Prep Method: N/A    |  |  |
| QC Batch:  |                |                   |                   | ed: 2009-08-10 Analyzed B     |        |          |                     |  |  |
| QC Batch:02011Date Hully Ref.2005 00 10Prep Batch:53154Sample Preparation:2009-08-10 |                |                   |                   | 8-10                          | Prepar | ed By:   |                     |  |  |
|  |                |                   | $\mathbf{RL}$     |                               |        |          |                     |  |  |
| Parameter  | Parameter Flag |                   | $\mathbf{Result}$ | Un                            | its    | Dilution | $\operatorname{RL}$ |  |  |
| DRO  |                |                   | <50.0             | mg/l                          | Kg     | 1        | 50.0                |  |  |
|  |                |                   |                   |                               | Spike  | Percent  | Recovery            |  |  |
| Surrogate  | Flag           | $\mathbf{Result}$ | Units             | Dilution                      | Amount | Recovery | Limits              |  |  |
| n-Triacontan   | le             | 99.7              | mg/Kg             | 1                             | 100    | 100      | 46.6 - 172          |  |  |

## Sample: 205260 - Water Tank Area Remediation @ 2.5'

| Laboratory:<br>Analysis:<br>QC Batch:<br>Prep Batch: | Lubbock<br>TPH GRO<br>62302<br>53150 |                                       | Analytical<br>Date Anal<br>Sample Pr |       | S 8015B<br>2009-08-10<br>2009-08-10 |        | Prep Meth<br>Analyzed<br>Prepared 1 | By: MT              |
|--|--------------------------------------|---------------------------------------|--------------------------------------|-------|-------------------------------------|--------|-------------------------------------|---------------------|
|  |                                      |                                       | $\mathbf{RL}$                        |       |                                     |        |                                     |                     |
| Parameter  | $\mathbf{Flag}$                      |                                       | $\mathbf{Result}$                    |       | $\mathbf{Units}$                    | D      | ilution                             | $\operatorname{RL}$ |
| GRO  |                                      |                                       | <2.00                                |       | mg/Kg                               |        | 1                                   | 2.00                |
|  |                                      |                                       |                                      |       |                                     | Spike  | Percent                             | Recovery            |
| Surrogate  |                                      | Flag                                  | $\mathbf{Result}$                    | Units | Dilution                            | Amount | Recovery                            | Limits              |
| Trifluorotolu  | ene (TFT)                            | 18                                    | 2.49                                 | mg/Kg | 1                                   | 2.00   | 124                                 | 86.9 - 113          |
| 4-Bromofluor   | obenzene (4-BFB)                     | ····· · · · · · · · · · · · · · · · · | 2.16                                 | mg/Kg | 1                                   | 2.00   | 108                                 | 56.2 - 130          |

## Method Blank (1) QC Batch: 62294

| QC Batch:<br>Prep Batch: | 62294<br>53143 |      | Date Analyzed:<br>QC Preparation: |     |                  | Analyzed By:<br>Prepared By: |               |
|--------------------------|----------------|------|-----------------------------------|-----|------------------|------------------------------|---------------|
|                          |                |      | MI                                | DL  |                  |                              |               |
| Parameter                |                | Flag | Resi                              | ılt | $\mathbf{Units}$ |                              | $\mathbf{RL}$ |
| Chloride                 |                |      | <1.                               | 80  | mg/Kg            |                              | 3.25          |

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<sup>18</sup>High surrogate recovery. Sample non-detect, result bias high.

| Report Date: August<br>State MTS #2 Remed   |   |  | k Order: 908<br>MTS <u>#</u> 2 W  |  | Ç   | Page Num<br>State MTS #2  | ber: 14 of 20<br>Wellsite, NM   |
|---|---|--|---|--|---|---|---|
| Method Blank (1)  | QC Batch: 62301                                 |  |   |  |   |   |   |
| QC Batch: 62301<br>Prep Batch: 53150  |   | Date Ana<br>QC Prepa                         |   | 09-08-10<br>09-08-10                                       |   | Analyze<br>Prepare  |   |
|   |   |  | MD  | T.   |   |   |   |
| Parameter   | Flag  |  | Resul   |  | Uni   | ts  | $\mathbf{RL}$   |
| Benzene   | 0   |  | < 0.0033  | 81   | mg/l  | Kg  | 0.02  |
| Toluene   |   |  | < 0.0052  | 28   | mg/l  | Kg  | 0.02  |
| Ethylbenzene  |   |  | < 0.0044  |  | mg/l  |   | 0.02  |
| Xylene  |   |  | < 0.0045  | 56   | mg/l  | Kg  | 0.02  |
| Surrogate   | Flag  | Result                                       | Units   | Dilution   | Spike<br>Amount                                 | Percent<br>Recovery   | Recovery<br>Limits  |
| Trifluorotoluene (TFT)  |   | 2.24   | mg/Kg   | 1  | 2.00  | 112   | 71.8 - 112  |
| 4-Bromofluorobenzene  |   | 2.14   | mg/Kg   | 1  | 2.00  | 107   | 72.8 - 115  |
| Method Blank (1)<br>QC Batch: 62302   | QC Batch: 62302                                 | Date Ana                                     | -   | 09-08-10   |   | Analyze   |   |
|   | Flag  | Date Ana<br>QC Prepa                         | -   | 09-08-10<br>09-08-10                                       | Unit  | Prepare   |   |
| QC Batch: 62302<br>Prep Batch: 53150  |   |  | aration: 200<br>MDL   |  | Unit<br>mg/F                                    | Prepare   | ed By: MT   |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter   |   |  | aration: 200<br>MDL<br>Result   |  |   | Prepare   | ed By: MT<br>RL   |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)   | Flag<br>Flag                                    | QC Prepa                                     | Aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg   | 09-08-10   | mg/F<br>Spike<br>Amount<br>2.00                 | Prepare<br>s<br>Kg<br>Percent<br>Recovery<br>112                                    | ed By: MT<br><u>RL</u><br>2<br><u>Recovery</u><br><u>Limits</u><br>86.9 - 113                             |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate   | Flag<br>Flag                                    | QC Prepa                                     | MDL<br>Result<br><0.403<br>Units  | 09-08-10<br>Dilution                                       | mg/F<br>Spike<br>Amount                         | Prepare<br>s<br>Kg<br>Percent<br>Recovery   | ed By: MT RL R Recovery Limits  |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)<br>QC Batch: 62311  | Flag<br>Flag                                    | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | Aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>nalyzed: 2  | 09-08-10<br>Dilution<br>1<br>1<br>2009-08-10               | mg/F<br>Spike<br>Amount<br>2.00                 | Prepare<br>s<br>Kg<br>Percent<br>Recovery<br>112<br>94<br>Ana                       | ed By: MT<br><u>RL</u><br>2<br><u>Recovery</u><br><u>Limits</u><br>86.9 - 113<br>56.2 - 130<br>slyzed By: |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)   | Flag<br>Flag<br>(4-BFB)                         | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | Aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>nalyzed: 2  | 09-08-10<br>Dilution<br>1<br>1                             | mg/F<br>Spike<br>Amount<br>2.00                 | Prepare<br>s<br>Kg<br>Percent<br>Recovery<br>112<br>94<br>Ana                       | ed By: MT<br>RL<br>2<br>Recovery<br>Limits<br>86.9 - 113<br>56.2 - 130                                    |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)<br>QC Batch: 62311  | Flag<br>Flag<br>(4-BFB)                         | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | Aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>nalyzed: 2<br>paration: 2                  | 09-08-10<br>Dilution<br>1<br>1<br>2009-08-10               | mg/F<br>Spike<br>Amount<br>2.00                 | Prepare<br>s<br>Kg<br>Percent<br>Recovery<br>112<br>94<br>Ana                       | ed By: MT<br><u>RL</u><br>2<br><u>Recovery</u><br><u>Limits</u><br>86.9 - 113<br>56.2 - 130<br>slyzed By: |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)<br>QC Batch: 62311  | Flag<br>Flag<br>)<br>(4-BFB)<br>QC Batch: 62311 | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | Aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>nalyzed: 2  | 09-08-10<br>Dilution<br>1<br>1<br>2009-08-10               | mg/F<br>Spike<br>Amount<br>2.00                 | Prepare<br>s<br><u>Kg</u><br>Percent<br><u>Recovery</u><br>112<br>94<br>Ana<br>Prej | ed By: MT<br><u>RL</u><br>2<br><u>Recovery</u><br><u>Limits</u><br>86.9 - 113<br>56.2 - 130<br>slyzed By: |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)<br>QC Batch: 62311<br>Prep Batch: 53154                     | Flag<br>Flag<br>(4-BFB)                         | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>nalyzed: 2<br>paration: 2<br>MDL           | 09-08-10<br>Dilution<br>1<br>1<br>2009-08-10               | mg/F<br>Spike<br>Amount<br>2.00<br>2.00         | Prepare<br>s<br><u>Kg</u><br>Percent<br>Recovery<br>112<br>94<br>Ana<br>Prej        | RECOVERY<br>Limits<br>86.9 - 113<br>56.2 - 130  |
| QC Batch: 62302<br>Prep Batch: 53150<br>Parameter<br>GRO<br>Surrogate<br>Trifluorotoluene (TFT)<br>4-Bromofluorobenzene<br>Method Blank (1)<br>QC Batch: 62311<br>Prep Batch: 53154<br>Parameter<br>DRO | Flag<br>Flag<br>)<br>(4-BFB)<br>QC Batch: 62311 | QC Prepa<br>Result<br>2.23<br>1.89<br>Date A | aration: 200<br>MDL<br>Result<br><0.403<br>Units<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>nalyzed: 2<br>paration: 2<br>MDL<br>Result | 09-08-10<br>Dilution<br>1<br>1<br>2009-08-10<br>2009-08-10 | mg/F<br>Spike<br>Amount<br>2.00<br>2.00<br>Unit | Prepare<br>s<br><u>Kg</u><br>Percent<br>Recovery<br>112<br>94<br>Ana<br>Prej        | ed By: MT<br>RL<br>2<br>Recovery<br>Limits<br>86.9 - 113<br>56.2 - 130<br>allyzed By:<br>pared By:<br>RL  |

#### Laboratory Control Spike (LCS-1)

| QC Batch: 623<br>Prep Batch: 531 | 301<br>150 |        | Analyzed:<br>Preparation: | 2009-08<br>2009-08 |        |           | Analyze<br>Prepare | ed By: MT<br>d By: MT |
|----------------------------------|------------|--------|---------------------------|--------------------|--------|-----------|--------------------|-----------------------|
|                                  |            | LCS    |                           |                    | Spike  | Matrix    |                    | Rec.                  |
| Param                            |            | Result | Units                     | Dil.               | Amount | Result    | Rec.               | Limit                 |
| Benzene                          |            | 2.08   | mg/Kg                     | 1                  | 2.00   | < 0.00331 | 104                | 78.9 - 113            |
| Toluene                          |            | 2.09   | mg/Kg                     | 1                  | 2.00   | < 0.00528 | 104                | 78.3 - 116            |
| Ethylbenzene                     |            | 2.06   | mg/Kg                     | 1                  | 2.00   | < 0.00448 | 103                | 79.1 - 117            |
| Xylene                           |            | 6.36   | mg/Kg                     | 1                  | 6.00   | < 0.00456 | 106                | 79.6 - 116            |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|              | LCSD   |       |      | Spike                   | Matrix            |      | Rec.             |          | RPD       |
|--------------|--------|-------|------|-------------------------|-------------------|------|------------------|----------|-----------|
| Param        | Result | Units | Dil. | $\operatorname{Amount}$ | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$ | RPD      | Limit     |
| Benzene      | 2.04   | mg/Kg | 1    | 2.00                    | < 0.00331         | 102  | 78.9 - 113       | 2        | 20        |
| Toluene      | 2.04   | mg/Kg | 1    | 2.00                    | < 0.00528         | 102  | 78.3 - 116       | <b>2</b> | <b>20</b> |
| Ethylbenzene | 2.08   | mg/Kg | 1    | 2.00                    | < 0.00448         | 104  | 79.1 - 117       | 1        | 20        |
| Xylene       | 6.26   | mg/Kg | 1    | 6.00                    | < 0.00456         | 104  | 79.6 - 116       | <b>2</b> | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | LCS               | LCSD              |       |      | Spike  | LCS  | LCSD | Rec.       |
|------------------------------|-------------------|-------------------|-------|------|--------|------|------|------------|
| Surrogate                    | $\mathbf{Result}$ | $\mathbf{Result}$ | Units | Dil. | Amount | Rec. | Rec. | Limit      |
| Trifluorotoluene (TFT)       | 2.14              | 2.13              | mg/Kg | 1    | 2.00   | 107  | 106  | 70.8 - 111 |
| 4-Bromofluorobenzene (4-BFB) | 2.05              | 2.05              | mg/Kg | 1    | 2.00   | 102  | 102  | 68.3 - 117 |

#### Laboratory Control Spike (LCS-1)

| QC Batch:<br>Prep Batch: | 62302<br>53150 |               | )ate Analyzed<br>2C Preparatio |      |                 | v.               | Analyzed By: MT<br>Prepared By: MT |               |  |
|--------------------------|----------------|---------------|--------------------------------|------|-----------------|------------------|------------------------------------|---------------|--|
| Param                    |                | LCS<br>Besult | : Units                        | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.                               | Rec.<br>Limit |  |

 GRO
 20.0
 mg/Kg
 1
 20.0
 <0.403</th>
 100
 72.6 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|       | LCSD              |                  |      | Spike  | Matrix            |      | Rec.       |     | RPD              |
|-------|-------------------|------------------|------|--------|-------------------|------|------------|-----|------------------|
| Param | $\mathbf{Result}$ | $\mathbf{Units}$ | Dil. | Amount | $\mathbf{Result}$ | Rec. | Limit      | RPD | $\mathbf{Limit}$ |
| GRO   | 19.7              | mg/Kg            | 1    | 20.0   | < 0.403           | 98   | 72.6 - 121 | 2   | 20               |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | LCS    | LCSD   |                  |      | Spike  | LCS  | LCSD | Rec.                   |
|------------------------------|--------|--------|------------------|------|--------|------|------|------------------------|
| Surrogate                    | Result | Result | $\mathbf{Units}$ | Dil. | Amount | Rec. | Rec. | $\operatorname{Limit}$ |
| Trifluorotoluene (TFT)       | 2.03   | 1.98   | mg/Kg            | 1    | 2.00   | 102  | 99   | 75.2 - 112             |
| 4-Bromofluorobenzene (4-BFB) | 1.86   | 1.84   | mg/Kg            | 1    | 2.00   | 93   | 92   | 54.9 - 133             |

| Report Date: August 11<br>State MTS #2 Remediat   |               | <u></u>  | Work Order: 9081008<br>State MTS #2 Well Site         |   |  |  |   |   | Page Number: 16 of 20<br>State MTS #2 Wellsite, NM |   |  |  |
|---|---------------|--|---|---|--|--|---|---|--|---|--|--|
| Laboratory Control S  | pike (LCS     | -1)  |   |   |  |  |   |   |  |   |  |  |
| QC Batch: 62311<br>Prep Batch: 53154  |               |  |   | nalyzed:<br>eparation                         | 2009-08-<br>1: 2009-08-                      |  |   |   | nalyzed<br>repared                                 |   |  |  |
| Param   |               | LCS<br>Resul   |   | Jnits   | Dil.   | Spike<br>Amount  | Matri<br>Resu                           |   |  | Rec.<br>Limit                           |  |  |
| DRO   |               | 262  | m   | g/Kg  | 1  | 250  | <5.6                                    | 6 105   | 71   | .2 - 159                                |  |  |
| Percent recovery is based   | on the spil   | æ result. I  | RPD is b  | ased on                                       | the spike ar                                 | nd spike du  | plicate re                              | sult.   |  |   |  |  |
|   |               | LCSD   |   |   | Spike  | Matrix   |   | Rec.  |  | RPD                                     |  |  |
| Param   |               | Result   | Units   | Dil.  | Amount                                       | Result   | Rec.                                    | Limit   | RPD  | Limit                                   |  |  |
| DRO   |               |  | mg/Kg   | 1   | 250  | < 5.66   |   | 71.2 - 159  | 8  | 20                                      |  |  |
| Percent recovery is based   | l on the spil | æ result. F  | RPD is b  | ased on                                       | the spike ar                                 | nd spike du  | plicate re                              | sult.   |  |   |  |  |
|   | LCS           | LCSD   |   |   |  | Spike  | LCS                                     | LCSD  |  | Rec.                                    |  |  |
| Surrogate   | Result        | Result   | Uı  | nits  | Dil.   | Amount   | Rec.                                    | Rec.  |  | Limit                                   |  |  |
| n-Triacontane   | 96.1          | 92.3   | mg  | /Kg   | 1  | 100  | 96                                      | 92  | 46   | 6.6 - 172                               |  |  |
| Matrix Spike (MS-1)<br>QC Batch: 62294<br>Prep Batch: 53143   | Spiked S      |  | 5260<br>Date Ana<br>QC Prep                           | ~   | 2009-08-1<br>2009-08-1                       |  |   |   | yzed By<br>ared By                                 |   |  |  |
|   |               | ۲  | 2   |   |  | Spike  | Mat                                     | rix   |  | Rec.                                    |  |  |
|   |               | IVI S  |   |   |  |  |   |   |  |   |  |  |
| Param   |               | MS<br>Resu   |   | Units   | Dil.   |  | Res                                     |   | с.   |   |  |  |
| Param<br>Chloride   | 19            | Resu   | ılt   | Units<br>ng/Kg                                | Dil.<br>10                                   | Amount<br>500  |   | ult Re  |  | Limit<br>80 - 120                       |  |  |
| Chloride  |               | Resu<br>220  | ılt<br>10 r   | ng/Kg   | 10   | Amount<br>500  | Res<br><1                               | ult Ree<br>8.0 44   |  | Limit                                   |  |  |
| Chloride  |               | Resu<br>220<br>ce result. F  | ılt<br>10 r   | ng/Kg   | 10<br>the spike ar                           | Amount<br>500<br>nd spike du   | Res<br><1                               | ult Ree<br>8.0 44<br>sult.                                      |  | Limit<br>80 - 120                       |  |  |
| Chloride<br>Percent recovery is based   |               | Resu<br>220<br>ce result. F<br>MSD   | ılt<br>10 r<br>RPD is b                               | ng/Kg<br>ased on 1                            | 10<br>the spike ar<br>Spike                  | Amount<br>500<br>nd spike du<br>Matrix                                   | Res<br><14<br>plicate re                | ult Rev<br>8.0 44<br>sult.<br>Rec.                              | 0  | Limit<br>80 - 120<br>RPD                |  |  |
| Chloride<br>Percent recovery is based<br>Param  |               | Resu<br>220<br>æ result. F<br>MSD<br>Result  | <u>ilt<br/>10 r</u><br>RPD is b<br>Units              | ng/Kg<br>ased on t<br>Dil.                    | 10<br>the spike ar<br>Spike<br>Amount        | Amount<br>500<br>nd spike du<br>Matrix<br>Result                         | Res<br><12<br>plicate re<br>Rec.        | ult Re<br>8.0 44<br>sult.<br>Rec.<br>Limit                      |  | Limit<br>80 - 120<br>RPD<br>Limit       |  |  |
| Chloride<br>Percent recovery is based<br>Param<br>Chloride  | l on the spik | Resu<br>220<br>xe result. F<br>MSD<br>Result<br>2210                               | ılt<br>10 r<br>RPD is b<br>Units<br>mg/Kg             | ng/Kg<br>ased on<br>Dil.<br>10                | 10<br>the spike ar<br>Spike<br>Amount<br>500 | Amount<br>500<br>nd spike du<br>Matrix<br>Result<br><18.0                | Res<br><14<br>plicate re<br>Rec.<br>442 | ult Re-<br>8.0 44<br>sult.<br>Rec.<br>Limit<br>80 - 120         | 0<br>RPD   | Limit<br>80 - 120<br>RPD                |  |  |
| Chloride<br>Percent recovery is based<br>Param  | l on the spik | Resu<br>220<br>xe result. F<br>MSD<br>Result<br>2210                               | ılt<br>10 r<br>RPD is b<br>Units<br>mg/Kg<br>RPD is b | ng/Kg<br>ased on<br>Dil.<br>10                | 10<br>the spike ar<br>Spike<br>Amount<br>500 | Amount<br>500<br>nd spike du<br>Matrix<br>Result<br><18.0                | Res<br><14<br>plicate re<br>Rec.<br>442 | ult Re-<br>8.0 44<br>sult.<br>Rec.<br>Limit<br>80 - 120         | 0<br>RPD   | Limit<br>80 - 120<br>RPD<br>Limit       |  |  |
| Chloride         Percent recovery is based         Param         Chloride         Percent recovery is based | l on the spik | Resu<br>220<br>xe result. F<br>MSD<br>Result<br>2210<br>xe result. F<br>ample: 205 | ılt<br>10 r<br>RPD is b<br>Units<br>mg/Kg<br>RPD is b | ng/Kg<br>ased on t<br>Dil.<br>10<br>ased on t | 10<br>the spike ar<br>Spike<br>Amount<br>500 | Amount<br>500<br>nd spike du<br>Matrix<br>Result<br><18.0<br>nd spike du | Res<br><14<br>plicate re<br>Rec.<br>442 | ult Re<br>8.0 44<br>sult.<br>Rec.<br>Limit<br>80 - 120<br>sult. | 0<br>RPD   | Limit<br>80 - 120<br>RPD<br>Limit<br>20 |  |  |

continued ...

<sup>&</sup>lt;sup>19</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. <sup>20</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

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|------------------------------|------------------------|-----------------------------|
| State MTS #2 Remediation     | State MTS #2 Well Site | State MTS $#2$ Wellsite, NM |

matrix spikes continued ....

|              | MS                |                  |      | Spike  | Matrix    |      | Rec.       |
|--------------|-------------------|------------------|------|--------|-----------|------|------------|
| Param        | Result            | Units            | Dil. | Amount | Result    | Rec. | Limit      |
|              | MS                |                  |      | Spike  | Matrix    |      | Rec.       |
| Param        | $\mathbf{Result}$ | $\mathbf{Units}$ | Dil. | Amount | Result    | Rec. | Limit      |
| Benzene      | 2.35              | mg/Kg            | 1    | 2.00   | < 0.00331 | 118  | 61.5 - 134 |
| Toluene      | 2.52              | mg/Kg            | 1    | 2.00   | < 0.00528 | 126  | 64.2 - 143 |
| Ethylbenzene | 2.76              | mg/Kg            | 1    | 2.00   | < 0.00448 | 138  | 67.7 - 152 |
| Xylene       | 8.31              | mg/Kg            | 1    | 6.00   | 0.0188    | 138  | 67.8 - 152 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|              | MSD               |       |      | Spike  | Matrix    |      | Rec.       |     | RPD       |
|--------------|-------------------|-------|------|--------|-----------|------|------------|-----|-----------|
| Param        | $\mathbf{Result}$ | Units | Dil. | Amount | Result    | Rec. | Limit      | RPD | Limit     |
| Benzene      | 2.10              | mg/Kg | 1    | 2.00   | < 0.00331 | 105  | 61.5 - 134 | 11  | 20        |
| Toluene      | 2.24              | mg/Kg | 1    | 2.00   | < 0.00528 | 112  | 64.2 - 143 | 12  | 20        |
| Ethylbenzene | 2.43              | mg/Kg | 1    | 2.00   | < 0.00448 | 122  | 67.7 - 152 | 13  | <b>20</b> |
| Xylene       | 7.33              | mg/Kg | 1    | 6.00   | 0.0188    | 122  | 67.8 - 152 | 12  | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                              | MS                | MSD    |       |      | Spike                   | MS   | MSD  | Rec.             |
|------------------------------|-------------------|--------|-------|------|-------------------------|------|------|------------------|
| Surrogate                    | $\mathbf{Result}$ | Result | Units | Dil. | $\operatorname{Amount}$ | Rec. | Rec. | $\mathbf{Limit}$ |
| Trifluorotoluene (TFT)       | 2.67              | 2.29   | mg/Kg | 1    | 2                       | 134  | 114  | 65.3 - 134       |
| 4-Bromofluorobenzene (4-BFB) | 2.71              | 2.45   | mg/Kg | 1    | 2                       | 136  | 122  | 61.9 - 143       |

#### Matrix Spike (MS-1) Spiked Sample: 205254

| QC Batch:   | 62302 | Date Analyzed:  | 2009-08-10 | Analyzed By: | $\mathbf{MT}$ |
|-------------|-------|-----------------|------------|--------------|---------------|
| Prep Batch: | 53150 | QC Preparation: | 2009-08-10 | Prepared By: | $\mathbf{MT}$ |

|       | MS     |       |      | Spike  | Matrix            |      | Rec.             |
|-------|--------|-------|------|--------|-------------------|------|------------------|
| Param | Result | Units | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$ |
| GRO   | 21.3   | mg/Kg | 1    | 20.0   | < 0.403           | 106  | 34.1 - 160       |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

|                                    | MSD               |          |         | Spike                   | Matrix     |          | Rec.             |     | RPD                    |
|------------------------------------|-------------------|----------|---------|-------------------------|------------|----------|------------------|-----|------------------------|
| Param                              | $\mathbf{Result}$ | Units    | Dil.    | $\operatorname{Amount}$ | Result     | Rec.     | $\mathbf{Limit}$ | RPD | $\operatorname{Limit}$ |
| GRO                                | 20.4              | mg/Kg    | 1       | 20.0                    | < 0.403    | 102      | 34.1 - 160       | 4   | 20                     |
| Percent recovery is based on the s | pike result.      | RPD is b | ased on | the spike a             | nd spike d | uplicate | result.          |     |                        |

| Surrogate                    | ${f MS} {f Result}$ | $egin{array}{c} \mathrm{MSD} \ \mathrm{Result} \end{array}$ | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------------|---|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 2.19                | 2.10  | mg/Kg | 1    | 2               | 110        | 105         | 56.9 - 137    |
| 4-Bromofluorobenzene (4-BFB) | 2.24                | 2.20  | mg/Kg | 1    | <b>2</b>        | 112        | 110         | 42.1 - 171    |

| Report Date: August 11<br>State MTS #2 Remedia                  |                       |                              | ork Order:<br>e MTS #2             |                  | •                                  | St          | Page N<br>ate MTS #                            |        | 18 of 20<br>site, NM                 |
|---|-----------------------|------------------------------|------------------------------------|------------------|------------------------------------|-------------|--|--------|--------------------------------------|
| Matrix Spike (MS-1)   | Spiked Sample: 2      | 205256                       |                                    |                  |                                    |             |  |        |                                      |
| QC Batch: 62311<br>Prep Batch: 53154                            |                       | Date 2<br>QC P:              |                                    |                  | nalyze<br>repare                   | -           |  |        |                                      |
|   | Ν                     | 1S                           |                                    | Spike            | Matr                               | ix          |  | Rec.   |                                      |
| Param   |                       | sult                         | Units                              | Dil.             | Amount                             | Resu        |  |        | Limit                                |
| DRO   |                       |                              | mg/Kg                              | 1                | 250                                | <5.6        |  | )      | 10 - 218                             |
| Percent recovery is based                                       | l on the spike result | . RPD is                     | based on t                         | he spike a       | nd spike dur                       | olicate res | ult.   |        |                                      |
|   | MSD                   |                              |                                    | Spike            | Matrix                             |             | Rec.   |        | RPD                                  |
| Param   | Result                | Units                        | Dil.                               | Amount           | Result                             | Rec.        | Limit  | RPD    | Limit                                |
| DRO   | 243                   | mg/Kg                        | ç 1                                | 250              | <5.66                              | 97          | 10 - 218                                       | 2      | 20                                   |
| Percent recovery is based                                       | l on the spike result | . RPD is                     | based on t                         | he spike a       | nd spike dup                       | olicate res | ult.   |        |                                      |
|   | MS MS                 | D                            |                                    |                  | Spike                              | MS          | MSD  |        | Rec.                                 |
| Surrogate   | Result Resu           | ılt I                        | Units                              | Dil.             | Amount                             | Rec.        | Rec.   |        | Limit                                |
| n-Triacontane   | 92.4 93.              | 8 m                          | ng/Kg                              | 1                | 100                                | 92          | 94   | 4      | 6.6 - 172                            |
| QC Batch: 62294           Param         Flag           Chloride | Units<br>mg/Kg        | ICVs<br>True<br>Conc.<br>100 | nalyzed:<br>IC<br>Fou<br>Co:<br>99 | Vs<br>ind<br>nc. | ICVs<br>Percent<br>Recovery<br>100 | Re          | Anal<br>ercent<br>ecovery<br>Jimits<br>5 - 115 | A      | y: KV<br>Date<br>nalyzed<br>09-08-10 |
| Standard (CCV-1)  |                       |                              |                                    |                  |                                    |             |  |        |                                      |
| QC Batch: 62294   |                       | Date Ai                      | nalyzed:                           | 2009-08-10       | )                                  |             | Anal   | yzed B | y: KV                                |
|   |                       | CCVs                         | CC                                 |                  | CCVs                               |             | ercent   |        | _                                    |
|   | <b>TT 1</b> .         | True                         | Fou                                |                  | Percent                            |             | ecovery  |        | Date                                 |
| Param Flag  | Units                 | Conc.                        |                                    |                  | Recovery                           |             | Limits   |        | nalyzed                              |
| Chloride  | mg/Kg                 | 100                          | 10                                 | Ю                | 100                                | 04          | 5 - 115  | 20     | 09-08-10                             |
| Standard (CCV-1)<br>QC Batch: 62301                             |                       | Date Ar                      | nalyzed: 2                         | 2009-08-10       | 1                                  |             | Anal   | yzed B | y: MT                                |
|   |                       | 001                          |                                    |                  | aar                                | -           |  |        |                                      |
|   |                       | CCV                          |                                    | CCVs             | CCVs                               |             | Percent  |        | Data                                 |
| Param Fla   | g Units               | True<br>Conc                 |                                    | ound<br>Conc.    | Percent<br>Recovery                |             | ecovery<br>Limits                              | ٨      | Date<br>nalyzed                      |
| Benzene Fla   | mg/Kg                 | 0.100                        |                                    | .0986            | <u>99</u>                          |             | $\frac{1}{0} - 120$                            |        | 09-08-10                             |
|   | <u>****0/ **6</u>     | 0.100                        | . 0                                |                  |                                    |             | S INV  |        | $nued \dots$                         |

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| Report Date: A<br>State MTS #2 |                |         |                 | Order: 908100<br>ATS #2 Well S |                 | Page Number: 19 of 20<br>State MTS #2 Wellsite, NM |             |  |  |  |  |  |  |  |
|--------------------------------|----------------|---------|-----------------|--------------------------------|-----------------|--|-------------|--|--|--|--|--|--|--|
|                                |                |         |                 |                                |                 |  |             |  |  |  |  |  |  |  |
| standard continu               | ued            |         |                 | ,<br>,                         |                 |  |             |  |  |  |  |  |  |  |
|                                |                |         | $\mathbf{CCVs}$ | CCVs                           | $\mathrm{CCVs}$ | Percent  |             |  |  |  |  |  |  |  |
|                                |                |         | True            | Found                          | Percent         | Recovery   | Date        |  |  |  |  |  |  |  |
| Param                          | Flag           | Units   | Conc.           | Conc.                          | Recovery        | Limits   | Analyzed    |  |  |  |  |  |  |  |
| Toluene                        |                | mg/Kg   | 0.100           | 0.0983                         | 98              | 80 - 120   | 2009-08-10  |  |  |  |  |  |  |  |
| Ethylbenzene                   |                | mg/Kg   | 0.100           | 0.0999                         | 100             | 80 - 120   | 2009-08-10  |  |  |  |  |  |  |  |
| Xylene                         |                | mg/Kg   | 0.300           | 0.301                          | 100             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| Standard (CC                   | (V-2)          |         |                 |                                |                 |  |             |  |  |  |  |  |  |  |
| QC Batch: 623                  | 301            |         | Date Analy      | zed: 2009-08-                  | -10             | Anal   | yzed By: MT |  |  |  |  |  |  |  |
|                                |                |         | CCVs            | CCVs                           | CCVs            | Percent  |             |  |  |  |  |  |  |  |
|                                |                |         | True            | Found                          | Percent         | Recovery   | Date        |  |  |  |  |  |  |  |
| Param                          | Flag           | Units   | Conc.           | Conc.                          | Recovery        | Limits   | Analyzed    |  |  |  |  |  |  |  |
| Benzene                        |                | mg/Kg   | 0.100           | 0.102                          | 102             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| Foluene                        |                | mg/Kg   | 0.100           | 0.102                          | 102             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| Ethylbenzene                   |                | mg/Kg   | 0.100           | 0.100                          | 100             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| Xylene                         |                | mg/Kg   | 0.300           | 0.309                          | 103             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| Standard (CC<br>QC Batch: 623  | ~              |         | Date Analy      | vzed: 2009-08-                 | -10             | Anal   | yzed By: MT |  |  |  |  |  |  |  |
|                                |                |         | $\mathrm{CCVs}$ | CCVs                           | CCVs            | Percent  |             |  |  |  |  |  |  |  |
|                                |                |         | True            | Found                          | Percent         | Recovery   | Date        |  |  |  |  |  |  |  |
| Param I                        | Flag           | Units   | Conc.           | Conc.                          | Recovery        | Limits   | Analyzed    |  |  |  |  |  |  |  |
| GRO                            | 1.1 <i>a</i> g | mg/Kg   | 1.00            | 1.07                           | 107             | 80 - 120   | 2009-08-1   |  |  |  |  |  |  |  |
| <u></u>                        | <u> </u>       | ing/ Kg | 1.00            | 1.07                           | 107             | 00 - 120   | 2009-08-10  |  |  |  |  |  |  |  |
| Standard (CC                   | <b>V-2</b> )   |         |                 |                                |                 |  |             |  |  |  |  |  |  |  |
| QC Batch: 623                  | 802            |         | Date Analy      | zed: 2009-08-                  | -10             | Analy  | yzed By: MT |  |  |  |  |  |  |  |
|                                |                |         | CCVs            | CCVs                           | $\mathbf{CCVs}$ | Percent  |             |  |  |  |  |  |  |  |
|                                |                |         | True            | Found                          | Percent         | Recovery   | Date        |  |  |  |  |  |  |  |
|                                |                | TT *-   | Conc.           | Conc.                          | Recovery        | Limits   | Analyzed    |  |  |  |  |  |  |  |
| Param I<br>GRO                 | Flag           | Units   | 0040.           |                                |                 |  |             |  |  |  |  |  |  |  |

QC Batch: 62311

Date Analyzed: 2009-08-10

Analyzed By:

|          | ate: August 11<br>S #2 Remedia | ,                |                       | k Order: 90810<br>MTS #2 Well |                       | Page Number: 20 of<br>State MTS #2 Wellsite, N |              |  |  |  |  |  |  |
|----------|--------------------------------|------------------|-----------------------|-------------------------------|-----------------------|--|--------------|--|--|--|--|--|--|
|          |                                |                  | $\operatorname{CCVs}$ | $\operatorname{CCVs}$         | CCVs                  | Percent  |              |  |  |  |  |  |  |
| _        |                                |                  | True                  | Found                         | Percent               | Recovery                                       | Date         |  |  |  |  |  |  |
| Param    | $\operatorname{Flag}$          | $\mathbf{Units}$ | Conc.                 | Conc.                         | Recovery              | Limits   | Analyzed     |  |  |  |  |  |  |
| DRO      |                                | mg/Kg            | 250                   | 255                           | 102                   | 80 - 120                                       | 2009-08-10   |  |  |  |  |  |  |
| Standard | (CCV-2)                        |                  |                       |                               |                       |  |              |  |  |  |  |  |  |
| QC Batch | : 62311                        |                  | Date A                | nalyzed: 2009                 | -08-10                |  | Analyzed By: |  |  |  |  |  |  |
|          |                                |                  | CCVs                  | CCVs                          | $\operatorname{CCVs}$ | Percent  |              |  |  |  |  |  |  |
|          |                                |                  | True                  | Found                         | Percent               | Recovery                                       | Date         |  |  |  |  |  |  |
| Param    | Flag                           | Units            | Conc.                 | Conc.                         | Recovery              | Limits   | Analyzed     |  |  |  |  |  |  |
| DRO      |                                | mg/Kg 250 292    |                       | 292                           | 117                   | 80 - 120                                       | 2009-08-10   |  |  |  |  |  |  |

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| LAB Ord                        | er ID # 908   | 1002           | )(           |       |                      |             |          |            |       |             |                                 |  |                                    |   |                                  |                                       |              |                                   |              |   |                |                      |                |                     |  |               |                 |                             |                  | Pa                | ge           | ·           | 1              |               | of          | _                             |             |   |      |
|--------------------------------|---|----------------|--------------|-------|----------------------|-------------|----------|------------|-------|-------------|---------------------------------|--|------------------------------------|---|----------------------------------|---------------------------------------|--------------|-----------------------------------|--------------|---|----------------|----------------------|----------------|---------------------|--|---------------|-----------------|-----------------------------|------------------|-------------------|--------------|-------------|----------------|---------------|-------------|-------------------------------|-------------|---|------|
|                                | TraceAr<br>email: lab@  | traceanal      |              |       | n                    | c.          |          |            | 6     | 5701<br>L   | Abe<br>ubb<br>Tel<br>Fax<br>1 ( | rdeen<br>ock, 1<br>(806)<br>(806)<br>(800) | Aver<br>794-<br>794<br>794<br>378- | nue, \$<br>5 <b>794</b><br>1296<br>1296<br>1296 | Suite 9<br>1 <b>24</b><br>3<br>8 | 5002 Ba<br><b>Midla</b><br>Tel<br>Fax | nd,<br>(432  | Stree<br>Texa<br>2) 689<br>2) 689 | s 79<br>-630 | 703   | <br>I          | 20                   | EL             | Pas<br>el (9        | Suns<br>o, Te<br>915)<br>915)<br>88) 5 | xas           | 799             | <b>322</b>                  | Ε                | 88                | 08 0         | Ft          | t. Wo<br>Tel   | orth,<br>(817 | Tex<br>) 20 | We<br>as 76<br>1-526<br>0-430 | 116<br>0    | ute 1                                       | 30   |
| Company N<br>VIEJC<br>Address: | Corepany Name:-<br>VIEJCHOLDING (OMPANY<br>Address: (Street, City, Zip)<br>5410 Bec. (AVES RAPD. HUSDIN, TX 78746<br>512-329-8748 |                |              |       |                      |             |          |            |       |             |                                 |  |                                    |   | ((                               | Cir                                   | cl           |                                   | AN/<br>Or    |   |                |                      |                |                     |  |               | )<br>d          | N                           | 0.)              | ņ                 |              |             |                |               |             |                               |             |   |      |
| 5410 +                         | BRE CAVES RAAD, HU  | USTIN, 7       | X            | 187   | 746                  | 2           |          |            | 5     | 2.          | 37                              | 29   | - 8                                | \$ 73   | 18                               |                                       |              |                                   | I            |   | 1              |                      |                |                     |  |               | •               |                             | -                | 1                 |              | l           |                | I             |             |                               |             | ъ   |      |
| DICK                           | Schnudt   |                |              |       |                      |             |          | <u>d</u> : | sch   | 111         | ict                             | D  | sh                                 | cq  | lobal, r                         | <u>net</u>                            |              |                                   | 35)          |   | 6010/200.7     | P                    | ,              |                     |  |               |                 |                             |                  |                   |              |             |                |               |             |                               |             | andar                                       |      |
| Invoice to:<br>(If different   | from above)   |                |              |       |                      |             | S        | Stat       | e1    | In          | 34                              | 21   | ilot                               | 15  | Ho.                              |                                       |              |                                   | Ext(C35)     |   | Ha 601         | b Se Hg              |                |                     |  |               |                 |                             |                  |                   |              |             |                |               |             |                               |             | m sta                                       |      |
| Project #:                     | ATS# 2. Remediation<br>ation (including state):<br>Won State MTS#2. M   | <u>~1</u>      |              |       |                      |             | I        | Proje      | ect N | lame        | ):,                             | Mr/  | +                                  |   | <u></u>                          |                                       | 8260 / 624   |                                   | 005 E        | ξ   | S              | 5                    |                |                     |  |               |                 | 52                          |                  |                   |              |             |                |               |             |                               |             | nt fro                                      |      |
| Project Loc                    | ation (including state):  | 1/0/           | 11           |       |                      |             |          | Sam        | pler  | Sigr        |                                 |  |                                    |   |                                  |                                       | 3260         | 8260 / 624                        | TX10051      |   | Cr Pb          | 3                    |                |                     |  |               | 4               | 70/6                        |                  |                   |              |             |                |               |             |                               |             | ifferei                                     |      |
| HS bolo                        | WON STATE MITS # 2 N  | <u>ellSite</u> |              |       |                      |             |          |            |       | PRE         | ESE                             | RVA  | TIVE                               |   |                                  |                                       | 602 / 8      | 00                                | 005/         | X   | Ba Cd          | As B.                |                | tiles               |  |               | 0 / 624         | I. 827                      | _                | 608               |              |             |                |               |             |                               |             | eifd  |      |
|                                |   |                |              |       | n<br>                |             |          | -          |       |             | ME                              |  | <b>)</b>                           |   | SAMF                             | LING                                  | 1~           | / 60                              | TX1005       | 625<br>625                                  | Ad As I        | s Aq                 | les            | Volat               | sides                                  |               | 826(            | ji. Vo                      | / 60             | 081               | H            | Content     |                |               |             |                               |             | ЦП  |      |
| LAB #<br>(LAB USE)<br>ONLY     | FIELD CODE  |                |              |       | SOIL                 | AIR         | SLUDGE   |            | HCI   | FNO3        | H <sub>2</sub> SO <sub>4</sub>  | NaOH                                       | NONE                               |   | DATE                             | TIME                                  | MTBE 8021    | 00                                | TPH 418.1 /  | ТРН 8015 GRO / URO / TVHC<br>РАН 8770 / 625 | Total Metals A | TCLP Metals Aq As Ba | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides                        | RCI           | GC/MS Vol. 8260 | GC/MS Semi. Vol. 8270 / 625 | PCB's 8082 / 608 | Pesticides 8081 / | BOD, TSS, pH | Moisture Co |                |               |             |                               |             | Turn Around Time if different from standard | Hold |
|                                | OIL TANG AREA   |                |              |       | -                    | +           | +        |            |       |             | $\neg$                          |  | +                                  | +   | -                                |                                       | ╞            | +-                                | .0           | nt  | X,             |                      |                |                     | ĸ                                      |               |                 |                             | -+               | 20.               | _            |             | $\overline{1}$ | +             |             | -                             |             | X   |      |
| २०५२५                          | Remediation D 51  | ,              |              |       | Y                    |             | 1        |            |       | -+          | -                               |  | N                                  |   | 6/2/04                           | Nenn                                  | $\uparrow$   | +                                 | ST.          |   | 4z             | -                    |                |                     | 7                                      | 1             | ŕ               | e                           | 2                | <u> 17</u>        |              | 1           | +              | +             | $\uparrow$  |                               |             |   |      |
| 255                            | Rematication & IC.  | 51             | 1            |       | X                    |             | <u>†</u> |            | -     | 1           | +                               |  | Ì                                  | 1   | 6/7/09                           | •                                     | 1            |                                   | A            | 7/3   | s'n            | 111                  | p              | k                   | 1                                      | il            | 1               | n                           | 10               | AI                | 1            | 7           | 1              |               | 1           |                               |             |   |      |
|                                | ACTION TO TL  |                | 1            |       | Ť                    |             | 1        |            |       | +           |                                 |  |                                    |   | <del>en non</del>                | 1010                                  | T            |                                   |              |   | 1              | 1                    |                |                     | 1000                                   |               | <b>1</b> -1     |                             | 7                |                   | -            |             | -74            |               |             |                               |             |   |      |
|                                | SEPERATOR AREA  |                |              |       |                      |             |          |            |       |             |                                 |  |                                    |   |                                  |                                       |              |                                   |              | ٤   | 11             | in a                 | 1              | 10                  | 40                                     | de            | t.              |                             | z                | ;                 |              |             |                |               |             |                               |             |   |      |
| ash                            | REMEDIATION D   | 4'             |              |       | Y                    | (           |          |            |       |             |                                 | Y  | $\langle$                          |   | 8/7/09                           | 1620                                  |              |                                   |              |   | ds             | sel                  | iv             | via                 | ¥.                                     | 3             | ٤.              | 69                          | 10               | 60                | 1.           | 70          | A              |               |             |                               |             |   |      |
| 257                            | REMEDIATION à C   |                |              |       | X                    | $\langle  $ |          |            |       |             |                                 | )  |                                    |   | 8/7/5/                           | 1720                                  |              |                                   |              |   | Ł              | ar                   | k              | on                  | a                                      | $\mathcal{C}$ | ea              |                             | we               | id                | /            | Ce          | on             | n             |             |                               |             |   |      |
| 258                            | BACKGROUNDERR   |                |              |       | •                    | X           |          |            |       |             |                                 | }  | K                                  |   | 6/1/09                           | 19210                                 | 2            |                                   |              |   | 41             | WL.                  | Ju.            | nk                  | a                                      | n             | 100             |                             | c                | -11               | 1            |             |                |               |             |                               |             |   |      |
|                                | WATER TANK AREA   |                |              |       |                      |             |          |            |       |             |                                 |  |                                    |   |                                  |                                       |              |                                   |              |   | 10             | 241                  | Y.             | 10                  | in.                                    | Sel.          | 2a              | ेड                          | ta               | 6                 | Δ            | n           | n              | <u>s</u>      |             | _                             |             |   | ļ    |
| 259                            | REMEDIATION DI'   | \              |              |       | X                    | <b>`</b>    |          |            |       |             |                                 | 7  |                                    |   | 8/7/09                           | 1610                                  |              |                                   |              |   |                |                      | 1              | 1                   |  |               |                 |                             |                  |                   |              |             |                |               |             |                               |             |   | ļ    |
| 260                            | REMEDIATIONDZ   | '.5' ·         |              |       | ¥                    |             |          |            |       |             |                                 | Y  | <u>(</u>                           |   | 8/1/09                           |                                       |              |                                   |              |   |                |                      |                | <u> </u>            |  |               |                 |                             |                  |                   |              |             |                |               |             |                               |             |   | L    |
| Relinquish                     | ed by Company:  | Date:          | Time<br>2/3/ | c (   | $\int_{\mathcal{O}}$ | eivec<br>MO | (F       | <u>í</u>   |       | mpa<br>ra ( | -                               | 8  | Dat<br>}- \(                       | e:<br>2- 0                                      | : Time) י דו<br>איי אן רי<br>רבו | Юов:<br>M coi                         | s 12<br>R 13 | 2.8                               | ° c          | LA<br>(                                     |                | US<br>LY             |                |                     |  | em#<br>43     |                 |                             |                  | د<br>•            | Зo           | ž           | au             | C             | sa          | ц (                           | 21          |   |      |
| Relinquish                     | ed by: Company:   | Date:          | Time         | : 1   | Rece                 | eivec       | by:      |            | Co    | mpa         | any                             |  | Dat                                | e:  | Time                             |                                       | т            |                                   | - 1          | ntac  | 91             | <u>N_</u>            |                |                     |  |               |                 |                             |                  | õ                 | λC           | 4 1         | 15             | ÷             | 371         | Eχ                            | $ \tau$     | PH  |      |
| Relinquish                     | ed by: Company:   | Date:          | Time         | :   1 | Rece                 | eiveo       | l by:    |            | Co    | mpa         | any                             | :  | Dat                                | e:  | Time                             | co                                    | R<br>T<br>S  |                                   | ۔<br>م       | leads<br>.og-in-                            |                | ř                    | ₹<br>1         |                     |  | RP            | Rep<br>If S     | oort<br>ipeci               | Req<br>ial R     | Requ<br>uirea     | uireo<br>d   | d           |                |               |             | Ċ                             | رور ا<br>10 |   | 1    |
| Submittal o                    | f samples constitutes agreeme   | ent to Terms   | s and C      | ondit | ions                 | liste       | d on     | reve       | erse  | side        | e of                            | C. O                                       | . C.                               | ••••  |                                  |                                       |              | Carne                             | =<br>r #     | G   | ī              | I                    | 3              | 0                   | 53                                     |               |                 |                             | _                |                   |              | 0           | n              | ìc            | e           |                               | _           | AM  | _    |