

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

March 13, 2009

New Mexico Oil Conservation Division
Mr. Larry Johnson
1625 N French Drive
Hobbs, New Mexico 88240

Re: Remediation Plan for Oxy USA – Todd Lower San Andres #8 Leak
UL 'H' Sec. 35 T7S R35E Roosevelt County
1RP-2029 2.152

Mr. Larry Johnson,

Elke Environmental was contracted by Oxy USA to complete the remediation of the impacted soil at the Todd Lower San Andres #8 Flowline Leak. Vertical and horizontal delineation of the site was started with a backhoe and completed using an air rotary rig. The ranking criteria for this site is as follows: Surface Body of Water – 0 points; Wellhead Protection Area – 0 points; Groundwater Depth – 0 points (GW = 109'). The total ranking for the site is 0 points. Attached is a plat map, driller's logs, field analytical and lab confirmation for the site.

A monitor well was set at the site to prove groundwater conditions. During the drilling of the borehole no signs of a water bearing zone were present. The borehole was left open for 72 hrs and an interface probe was used to show groundwater at 126' bgs. Seven days after the borehole was drilled a monitor well was set. The initial borehole was drilled to 150' bgs, after 7 days the borehole collapsed and Total Depth was 114' bgs. After setting the monitor well a groundwater reading was taken a 112' bgs. During the development, the well dried up. A water reading was taken every 15 minutes until an estimated yield was determined. The estimated yield was determined to be 0.4 Gallons per Day. The groundwater was sampled for TDS and returned a result of 516 mg/L. NMAC 19.15.1.19, Section B, Subsection 2 states "**Ground-water pollution at any place of withdrawal for present or reasonably foreseeable future use, where the TDS concentration is 10,000 mg/L or less, shall be abated**". With only 0.4 GPD recharge rate, Oxy USA feels that the yield from that water zone is to low for any foreseeable future use and proposes the following remediation plan. ^{T60}

Oxy USA proposes to excavate 4' of impacted soil and haul to Gandy Marley Disposal. A 20 mil poly liner will be installed at 4' bgs with 4 oz geo-textile liner above and below the poly liner. 4' of clean native soil will be backfilled and contoured tot he surrounding area. The site will be re-seeded with a mixture approved by the landowner. A final report will be submitted at the completion of the remediation. If you have any questions about the enclosed report please contact me at the office.

Sincerely,



Logan Anderson

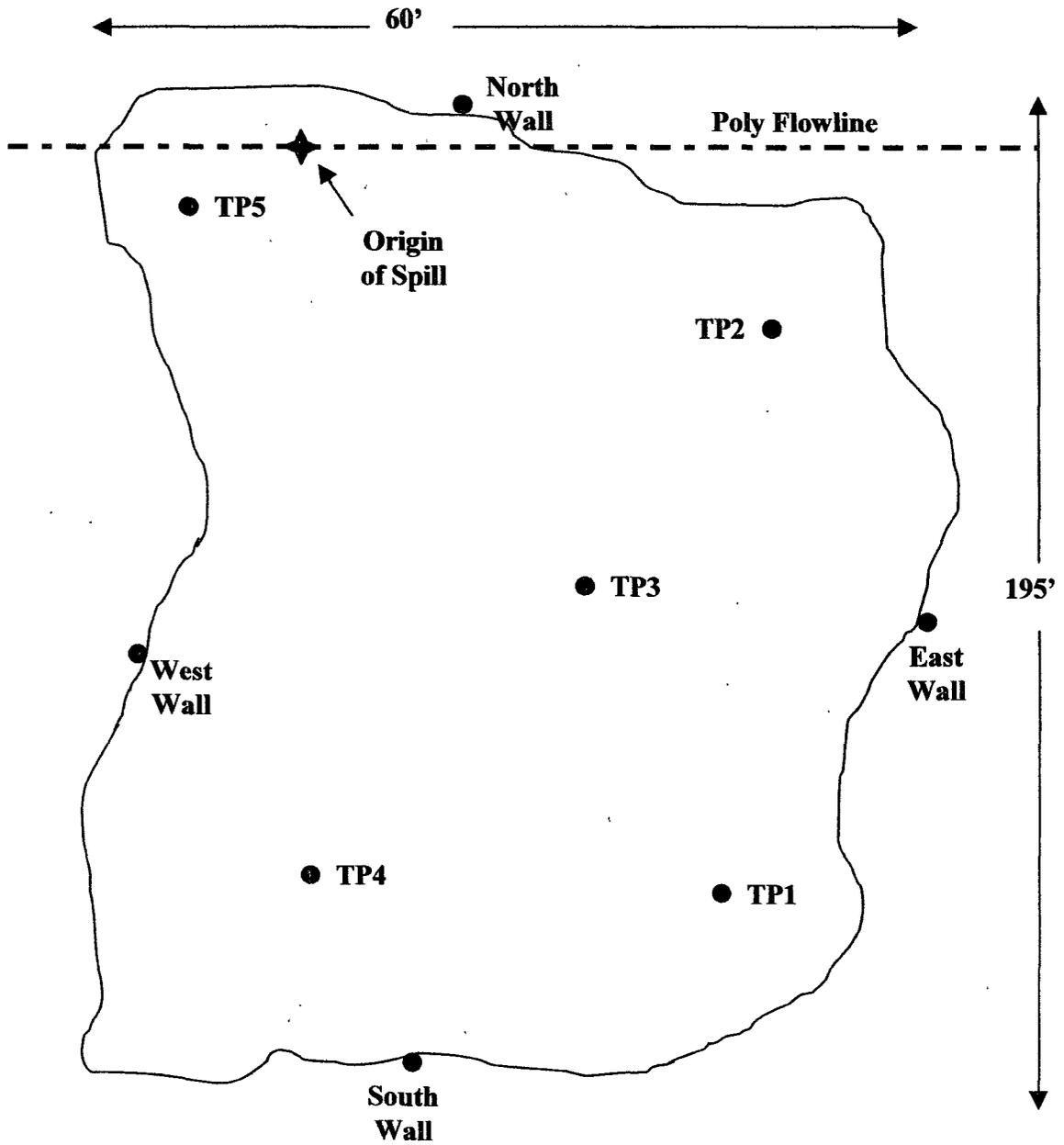
Oxy USA

Todd Lower San Andres #8 Flowline Leak

UL 'H' Sec. 35 T7S R35E

Roosevelt County, NM

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam/Logan Anderson

Site Todd Lower San Andres #8 Flowline Leak

| Sample ID | Date | Depth | TPH / PPM | CI / PPM | PID / PPM | GPS |
|-----------|----------|---------|-----------|----------|-----------|---------------------------------|
| TP1 | 12-24-08 | Surface | 60,800 | 993 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 12-24-08 | 2' | 30,400 | 2,038 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 1-19-09 | 3' | 1,490 | 2,350 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 1-19-09 | 5' | 67 | 894 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 1-19-09 | 7' | | 823 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 1-20-09 | 9' | | 732 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 1-20-09 | 12' | 33 | 657 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 2-10-09 | 15' | | 2,149 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 2-10-09 | 20' | | 259 | | 33° 40.272' N 103° 18.826' W |
| TP1 | 2-10-09 | 25' | | 139 | 0.0 | 33° 40.272' N 103° 18.826' W |
| TP2 | 12-24-08 | Surface | 50,900 | 1,780 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 12-24-08 | 2' | 23,800 | 1,591 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 1-19-09 | 3' | 3,830 | 6,235 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 1-19-09 | 5' | 45 | 7,105 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 1-19-09 | 7' | | 6,821 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 1-20-09 | 9' | | 7,651 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 1-20-09 | 12' | 56 | 7,824 | | 33° 40.284' N 103° 18.812' W |

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam/Logan Anderson

Site Todd Lower San Andres #8 Flowline Leak

| Sample ID | Date | Depth | TPH / PPM | CI / PPM | PID / PPM | GPS |
|-----------|----------|---------|-----------|----------|-----------|---------------------------------|
| TP2 | 2-10-09 | 15' | | 1,965 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 20' | | 4,220 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 25' | | 4,752 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 30' | | 3,959 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 35' | | 3,457 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 40' | | 2,762 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 45' | | 3,306 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 50' | | 4,021 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 55' | | 5,359 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 60' | | 1,750 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 65' | | 282 | | 33° 40.284' N 103° 18.812' W |
| TP2 | 2-10-09 | 70' | | 160 | 0.0 | 33° 40.284' N 103° 18.812' W |
| TP3 | 12-24-08 | Surface | 55,100 | 866 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 12-24-08 | 2' | 27,700 | 1,284 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 1-19-09 | 3' | 4,880 | 7,811 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 1-19-09 | 5' | 89 | 7,701 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 1-19-09 | 7' | | 7,535 | | 33° 40.283' N 103° 18.817' W |

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam/Logan Anderson

Site Todd Lower San Andres #8 Flowline Leak

| Sample ID | Date | Depth | TPH / PPM | CI / PPM | PID / PPM | GPS |
|-----------|----------|---------|-----------|----------|-----------|---------------------------------|
| TP3 | 1-19-09 | 9' | | 7,202 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 1-19-09 | 12' | 77 | 6,881 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 2-10-09 | 15' | | 2,752 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 2-10-09 | 20' | | 2,742 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 2-10-09 | 25' | | 921 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 2-10-09 | 30' | | 183 | | 33° 40.283' N 103° 18.817' W |
| TP3 | 2-10-09 | 35' | | 196 | 0.0 | 33° 40.283' N 103° 18.817' W |
| TP4 | 12-24-08 | Surface | 29,870 | 577 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 12-24-08 | 2' | 11,520 | 1,692 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 1-19-09 | 3' | 2,100 | 4,320 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 1-19-09 | 5' | 71 | 1,382 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 1-19-09 | 7' | | 2,451 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 1-20-09 | 9' | | 1,821 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 1-20-09 | 12' | 66 | 1,299 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 2-10-09 | 15' | | 1,454 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 2-10-09 | 20' | | 104 | | 33° 40.281' N 103° 18.826' W |
| TP4 | 2-10-09 | 25' | | 196 | 0.0 | 33° 40.281' N 103° 18.826' W |

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam/Logan Anderson

Site Todd Lower San Andres #8 Flowline Leak

| Sample ID | Date | Depth | TPH / PPM | CI / PPM | PID / PPM | GPS |
|-----------|----------|---------|-----------|----------|-----------|---------------------------------|
| TP5 | 12-24-08 | Surface | 61,400 | 1,311 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 12-24-08 | 2' | 37,600 | 2,151 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 1-20-09 | 3' | 5,600 | 7,851 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 1-20-09 | 5' | 470 | 8,390 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 1-20-09 | 7' | 70 | 8,233 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 1-20-09 | 9' | | 8,271 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 1-20-09 | 12' | 79 | 8,638 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 15' | | 5,915 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 20' | | 4,776 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 25' | | 5,642 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 30' | | 4,580 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 35' | | 4,224 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 40' | | 3,588 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 45' | | 4,395 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 50' | | 5,234 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 55' | | 1,955 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 60' | | 1,130 | | 33° 40.292' N 103° 18.809' W |

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA Analyst Curtis Elam/Logan Anderson

Site Todd Lower San Andres #8 Flowline Leak

| Sample ID | Date | Depth | TPH / PPM | CI / PPM | PID / PPM | GPS |
|------------|---------|---------|-----------|----------|-----------|---------------------------------|
| TP5 | 2-11-09 | 65' | | 212 | | 33° 40.292' N 103° 18.809' W |
| TP5 | 2-11-09 | 70' | | 204 | 0.0 | 33° 40.292' N 103° 18.809' W |
| Background | 1-20-09 | Surface | 27 | 123 | | 33° 40.290' N 103° 18.816' W |
| Background | 1-20-09 | 5' | 56 | 138 | | 33° 40.290' N 103° 18.816' W |
| Background | 1-20-09 | 9' | 38 | 146 | | 33° 40.290' N 103° 18.816' W |
| North Wall | 1-20-09 | 2' | 57 | 171 | | 33° 40.293' N 103° 18.801' W |
| North Wall | 1-20-09 | 5' | 66 | 139 | | 33° 40.293' N 103° 18.801' W |
| South Wall | 1-20-09 | 2' | 36 | 154 | | 33° 40.272' N 103° 18.820' W |
| South Wall | 1-20-09 | 5' | 78 | 126 | | 33° 40.272' N 103° 18.820' W |
| East Wall | 1-20-09 | 2' | 37 | 127 | | 33° 40.292' N 103° 18.809' W |
| East Wall | 1-20-09 | 5' | 59 | 147 | | 33° 40.292' N 103° 18.809' W |
| West Wall | 1-20-09 | 2' | 34 | 134 | | 33° 40.290' N 103° 18.826' W |
| West Wall | 1-20-09 | 5' | 28 | 168 | | 33° 40.290' N 103° 18.826' W |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Monitor Well Report Form

Client Oxy USA **Date** 3-10-2009

Site Todd Lower San Andres #8

| Monitor Well ID | Depth of Water | Total Depth of Well | Feet of Water | Gallons of Water to Purge | Gallons of Water Purged | Time |
|-----------------|----------------|---------------------|---------------|---------------------------|-------------------------|----------|
| MW - 1 | 109.03' | 116.21' | 7.18' | 3.5 | 1.25 | 12:43 pm |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Notes During 3 well volume purge, monitor well showed signs of becoming dry. Sample was taken due

To decreasing volume of water in monitor well.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | | | | | | | |
|--|---|-------------------------|---|------------------------|--|----------------|--|----------------------------------|---|-------|---|-------|--|--|
| 1. GENERAL AND WELL LOCATION | POD NUMBER (WELL NUMBER) TODD LOWER SAN ANDRES #8 MW-1 | | | | PAGE 1 OF 2 | | | | OSE FILE NUMBER(S) | | | | | |
| | WELL OWNER NAME(S) OXY USA | | | | PHONE (OPTIONAL) | | | | | | | | | |
| | WELL OWNER MAILING ADDRESS P.O. BOX 1988 | | | | CITY CARLSBAD | | STATE NM | | ZIP 88221 | | | | | |
| | WELL LOCATION (FROM GPS) | | DEGREES LATITUDE 33 | | MINUTES 40 | | SECONDS 15.00 N | | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | | | |
| | | LONGITUDE 103 | | 18 | | 43.00 W | | * DATUM REQUIRED: WGS 84 | | | | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM | | | | | | | | | | | | | | |
| 2. OPTIONAL | (2.5 ACRE) 1/4 | | (10 ACRE) 1/4 | | (40 ACRE) 1/4 | | (160 ACRE) 1/4 | | SECTION | | TOWNSHIP <input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH | | RANGE <input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST | |
| | SUBDIVISION NAME | | | | | | | | LOT NUMBER | | BLOCK NUMBER | | UNIT/TRACT | |
| | HYDROGRAPHIC SURVEY | | | | | | | | MAP NUMBER | | TRACT NUMBER | | | |
| 3. DRILLING INFORMATION | LICENSE NUMBER WD1478 | | NAME OF LICENSED DRILLER EDWARD BRYAN | | | | NAME OF WELL DRILLING COMPANY STRAUB CORPORATION | | | | | | | |
| | DRILLING STARTED 2-25-09 | | DRILLING ENDED 2-25-09 | | DEPTH OF COMPLETED WELL (FT) 114 | | BORE HOLE DEPTH (FT) 150 | | DEPTH WATER FIRST ENCOUNTERED (FT) | | | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) | | | | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A | | | | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY: | | | | | | | | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: | | | | | | | | | | | | | |
| | DEPTH (FT) | | BORE HOLE DIA. (IN) | | CASING MATERIAL | | CONNECTION TYPE (CASING) | | INSIDE DIA. CASING (IN) | | CASING WALL THICKNESS (IN) | | SLOT SIZE (IN) | |
| | FROM TO | | | | | | | | | | | | | |
| 114 94 | | 5 | | SCH 40 PVC .010 SCREEN | | FJ | | 2 | | 0.154 | | 0.10 | | |
| 94 +43 | | 5 | | SCH 40 PVC RISER | | FJ | | 2 | | 0.154 | | RISER | | |
| 4. WATER BEARING STRATA | DEPTH (FT) | | THICKNESS (FT) | | FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | | | | | | YIELD (GPM) | | | |
| | FROM TO | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA | | | | | | | | TOTAL ESTIMATED WELL YIELD (GPM) | | | | | | |

| | | | | | | | |
|----------------------|--|------------|--|------------------------------------|--|-------------|--|
| FOR OSE INTERNAL USE | | | | WELL RECORD & LOG (Version 6/9/08) | | | |
| FILE NUMBER | | POD NUMBER | | TRN NUMBER | | | |
| LOCATION | | | | | | PAGE 1 OF 2 | |

| | | | | | | | |
|-------------------------|--|------------|---------------------|---------------------|------------------------|-------------------|---------------------|
| 5. SEAL AND PUMP | TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| | ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) | | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
| | | FROM | TO | | | | |
| | | 114 | 81 | 5 | 6 BAGS 20/40 SAND | | TOPLOAD |
| 81 | 2 | 5 | 16 BAGS OF 3/8 PLUG | | TOPLOAD | | |
| 0 | 2 | 5 | .5 BAGS OF CEMENT | | TOPLOAD | | |

| | | | | | |
|--------------------------------|------------|----|--|--|---|
| 6. GEOLOGIC LOG OF WELL | DEPTH (FT) | | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? |
| | FROM | TO | | | |
| | 0 | 1 | 1 | TAN FINE SAND - CALICHE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 1 | 3 | 2 | REDDISH TAN FINE SAND - CALICHE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 3 | 9 | 6 | CALICHE - TAN FINE SAND - SANDSTONE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 9 | 11 | 2 | CALICHE SANDSTONE - TAN SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 11 | 28 | 15 | CALICHE - TAN SANDSTONE - TAN FINE SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 28 | 33 | 7 | TAN FINE SAND - SANDSTONE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 33 | 39 | 6 | TAN FINE SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 39 | 47 | 8 | TAN FINE SAND - GRAVEL | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 47 | 51 | 4 | TAN FINE SAND - SANDSTONE (CMT) | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 51 | 64 | 13 | TAN FINE SAND SANDSTONE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 64 | 76 | 12 | TAN FINE - VERY FINE SAND - SANDSTONE | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 76 | 79 | 3 | DARK TAN FNE SAND - WITH TAN CLAY | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 79 | 89 | 10 | TAN SILTY CLAY TAN VERY FINE SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | 89 | 93 | 4 | DARK GRAY CLAY | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 93 | 96 | 53 | GOLD SILT CLAY- CLAY - WITH VERY FINE SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| 96 | 103 | 7 | TAN VERY FINE SAND | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| 103 | 107 | 4 | TAN WHITE FINE SAND (BEIGE) | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | |

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

| | | |
|--------------------------------------|--|---|
| 7. TEST & ADDITIONAL INFO | WELL TEST | METHOD: <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY: |
| | | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
| | ADDITIONAL STATEMENTS OR EXPLANATIONS: 2X2 PAD - 4X4 HIGH RISER - WELL CAVED IN AT 114 FT TO 150 FT | |

| | | |
|---------------------|---|---------------|
| 8. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| | _____ SIGNATURE OF DRILLER | _____ DATE |

| | | | |
|----------------------|------------|------------------------------------|-------------|
| FOR USE INTERNAL USE | | WELL RECORD & LOG (Version 6/9/08) | |
| FILE NUMBER | POD NUMBER | TRN NUMBER | |
| LOCATION | | | PAGE 2 OF 2 |



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | | | | | | | |
|---|---|-------------------------|----------------------------------|-----------------------|---|----------------|------------------------------------|---|--|-------------|---|--|--|--|
| 1. GENERAL AND WELL LOCATION | POD NUMBER (WELL NUMBER) TODD LOWER SAN ANDRES #8 MW-1 | | | | PAGE 2 OF 2 | | | | OSE FILE NUMBER(S) | | | | | |
| | WELL OWNER NAME(S) OXY USA | | | | | | | | PHONE (OPTIONAL) | | | | | |
| | WELL OWNER MAILING ADDRESS P.O. BOX 1988 | | | | | | | | CITY CARLSBAD | | STATE NM | | ZIP 88221 | |
| | WELL LOCATION (FROM GPS) | | DEGREES LATITUDE 33 | | MINUTES 40 | | SECONDS 15.00 N | | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | | | |
| | | LONGITUDE 103 | | 18 | | 43.00 W | | * DATUM REQUIRED: WGS 84 | | | | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE. ROOSEVELT CO, NM | | | | | | | | | | | | | | |
| 2. OPTIONAL | (2.5 ACRE) ¼ | | (10 ACRE) ¼ | | (40 ACRE) ¼ | | (160 ACRE) ¼ | | SECTION | | TOWNSHIP <input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH | | RANGE <input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST | |
| | SUBDIVISION NAME | | | | | | | | LOT NUMBER | | BLOCK NUMBER | | UNIT/TRACT | |
| | HYDROGRAPHIC SURVEY | | | | | | | | MAP NUMBER | | TRACT NUMBER | | | |
| 3. DRILLING INFORMATION | LICENSE NUMBER WD1478 | | | | NAME OF LICENSED DRILLER EDWARD BRYAN | | | | NAME OF WELL DRILLING COMPANY STRAUB CORPORATION | | | | | |
| | DRILLING STARTED 2-25-09 | | DRILLING ENDED 2-25-09 | | DEPTH OF COMPLETED WELL (FT) 114 | | BORE HOLE DEPTH (FT) 150 | | DEPTH WATER FIRST ENCOUNTERED (FT) | | | | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) | | | | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A | | | | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY: | | | | | | | | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: | | | | | | | | | | | | | |
| | DEPTH (FT) | | BORE HOLE DIA. (IN) | | CASING MATERIAL | | CONNECTION TYPE (CASING) | | INSIDE DIA. CASING (IN) | | CASING WALL THICKNESS (IN) | | SLOT SIZE (IN) | |
| | FROM | TO | | | | | | | | | | | | |
| 114 | 94 | 5 | SCH 40 PVC .010 SCREEN | FJ | 2 | 0.154 | 0.10 | | | | | | | |
| 94 | +43 | 5 | SCH 40 PVC RISER | FJ | 2 | 0.154 | RISER | | | | | | | |
| FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | | | | | | | | | | | | | | |
| DEPTH (FT) | | THICKNESS (FT) | | FORMATION DESCRIPTION | | | | | | YIELD (GPM) | | | | |
| FROM | TO | | | | | | | | | | | | | |
| 107 | 103 | 4 | TAN WHITE FINE SAND | | | | | | GPD | .400 | | | | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA SUBMERSIBLE PUMP/ RECOVERY RATE | | | | | | | | TOTAL ESTIMATED WELL YIELD (GPM) .400 GPD | | | | | | |

| | | | | | | | |
|----------------------|--|------------|--|------------------------------------|--|-------------|--|
| FOR OSE INTERNAL USE | | | | WELL RECORD & LOG (Version 6/9/08) | | | |
| FILE NUMBER | | POD NUMBER | | TRN NUMBER | | | |
| LOCATION | | | | | | PAGE 1 OF 2 | |

| | | | | | | | |
|-------------------------|--|------------|---------------------|---------------------|------------------------|-------------------|---------------------|
| 5. SEAL AND PUMP | TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| | ANNULAR SEAL AND GRAVEL PACK | DEPTH (FT) | | BORE HOLE DIA. (IN) | MATERIAL TYPE AND SIZE | AMOUNT (CUBIC FT) | METHOD OF PLACEMENT |
| | | FROM | TO | | | | |
| | | 114 | 81 | 5 | 6 20/40 SAND | | TOPLoad |
| 81 | 2 | 5 | 16 BAGS OF 3/8 PLUG | | TOPLoad | | |
| 0 | 2 | 5 | .5 BAGS OF CEMENT | | TOPLoad | | |

| | | | | | | |
|--------------------------------|------------|-----|----------------|--|------------------------------|--|
| 6. GEOLOGIC LOG OF WELL | DEPTH (FT) | | THICKNESS (FT) | COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) | WATER BEARING? | |
| | FROM | TO | | | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | 107 | 110 | 5 | BROWN FINE SAND - TINY GRAVEL PIECES | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | 110 | 112 | 2 | TAN SILTY CLAY - VERY FINE SAND | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | 112 | 147 | 35 | RED SILTY CLAY - SAND | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | 147 | 150 | 3 | TAN - GRAY FINE SAND - CLAY | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | TD | 150 | | | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| | | | | | <input type="checkbox"/> YES | <input type="checkbox"/> NO |

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

| | | |
|--------------------------------------|-----------|---|
| 7. TEST & ADDITIONAL INFO | WELL TEST | METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY: |
| | | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
| | | ADDITIONAL STATEMENTS OR EXPLANATIONS: 2X2 PAD - 4X4 HIGH RISER - WELL CAVED IN AT 114 FT TO 150 FT |

| | | |
|---------------------|---|---------------|
| 8. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| | _____ SIGNATURE OF DRILLER | _____ DATE |

| | | | |
|----------------------|------------|------------------------------------|-------------|
| FOR USE INTERNAL USE | | WELL RECORD & LOG (Version 6/9/08) | |
| FILE NUMBER | POD NUMBER | TRN NUMBER | |
| LOCATION | | | PAGE 2 OF 2 |

Analytical Report 327145

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

Todd Lower San Andres # 8

12-MAR-09



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



12-MAR-09

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **327145**
Oxy USA
Project Address:

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327145. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327145 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 327145



Elke Environmental, Inc., Odessa, TX

Oxy USA

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------------|---------------|-----------------------|---------------------|----------------------|
| MW-1 | W | Mar-10-09 12:43 | 109.03 - 116.21 ft | 327145-001 |



Certificate of Analysis Summary 327145

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Todd Lower San Andres # 8

Contact: Logan Anderson

Date Received in Lab: Wed Mar-11-09 01:00 pm

Report Date: 12-MAR-09

Project Location:

Project Manager: Brent Barron, II

| | | | | | | | |
|-------------------------------|-------------------|------------------|--|--|--|--|--|
| Analysis Requested | Lab Id: | 327145-001 | | | | | |
| | Field Id: | MW-1 | | | | | |
| | Depth: | 109.03-116.21 ft | | | | | |
| | Matrix: | WATER | | | | | |
| | Sampled: | Mar-10-09 12:43 | | | | | |
| TDS by SM2540C | Extracted: | | | | | | |
| | Analyzed: | Mar-11-09 15:30 | | | | | |
| | Units/RL: | mg/L RL | | | | | |
| Total dissolved solids | | 516 5.00 | | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


Brent Barron
Odessa Laboratory Director

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

- F** RPD exceeded lab control limits.

- J** The target analyte was positively identified below the MQL and above the SQL.

- U** Analyte was not detected.

- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

- K** Sample analyzed outside of recommended hold time.

- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

- * Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

| | | |
|---|----------------|----------------|
| | Phone | Fax |
| 4143 Greenbriar Dr, Stafford, Tx 77477 | (281) 240-4200 | (281) 240-4280 |
| 9701 Harry Hines Blvd., Dallas, TX 75220 | (214) 902 0300 | (214) 351-9139 |
| 5332 Blackberry Drive, San Antonio TX 78238 | (210) 509-3334 | (210) 509-3335 |
| 2505 North Falkenburg Rd, Tampa, FL 33619 | (813) 620-2000 | (813) 620-2033 |
| 5757 NW 158th St, Miami Lakes, FL 33014 | (305) 823-8500 | (305) 823-8555 |
| 12600 West I-20 East, Odessa, TX 79765 | (432) 563-1800 | (432) 563-1713 |
| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |



Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 327145

Lab Batch #: 752276

Date Analyzed: 03/11/2009

QC- Sample ID: 327145-001 D

Reporting Units: mg/L

Date Prepared: 03/11/2009

Batch #: 1

Project ID: Todd Lower San Andres # 8

Analyst: LATCOR

Matrix: Water

| TDS by SM2540C Analyte | SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | |
|-------------------------------|------------------------------------|-----------------------------|-----|---------------------|------|
| | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Total dissolved solids | 516 | 558 | 8 | 30 | |

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
 All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: EIKE Env.
 Date/ Time: 3-11-09 13:06
 Lab ID #: 327145
 Initials: al

Sample Receipt Checklist

| | Yes | No | Client Initials |
|--|-------------------------------------|--------------------------|--------------------------|
| #1 Temperature of container/ cooler? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10.0 °C |
| #2 Shipping container in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #3 Custody Seals intact on shipping container/ cooler? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Present |
| #4 Custody Seals intact on sample bottles/ container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Present |
| #5 Chain of Custody present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #6 Sample instructions complete of Chain of Custody? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #7 Chain of Custody signed when relinquished/ received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #8 Chain of Custody agrees with sample label(s)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ID written on Cont / Lid |
| #9 Container label(s) legible and intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Applicable |
| #10 Sample matrix/ properties agree with Chain of Custody? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #11 Containers supplied by ELOT? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #12 Samples in proper container/ bottle? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Below |
| #13 Samples properly preserved? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Below |
| #14 Sample bottles intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #15 Preservations documented on Chain of Custody? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #16 Containers documented on Chain of Custody? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| #17 Sufficient sample amount for indicated test(s)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Below |
| #18 All samples received within sufficient hold time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Below |
| #19 Subcontract of sample(s)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Applicable |
| #20 VOC samples have zero headspace? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Applicable |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply.
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Laboratories



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

**Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429**

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

**Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta**

Analytical Report 324728

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

Todd Lower San Andres # 8

17-FEB-09





17-FEB-09

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **324728**
Oxy USA
Project Address:

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 324728. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 324728 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 324728



Elke Environmental, Inc., Odessa, TX
Oxy USA

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------------|---------------|-----------------------|---------------------|----------------------|
| TP 1 @ 25' | S | Feb-10-09 12:25 | 25 ft | 324728-001 |
| TP 2 @ 70' | S | Feb-10-09 15:45 | 70 ft | 324728-002 |
| TP 3 @ 35' | S | Feb-10-09 13:19 | 35 ft | 324728-003 |
| TP 4 @ 25' | S | Feb-10-09 11:45 | 25 ft | 324728-004 |
| TP 5 @ 70' | S | Feb-10-09 11:05 | 70 ft | 324728-005 |



Certificate of Analysis Summary 324728

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Todd Lower San Andres # 8

Contact: Logan Anderson

Project Location:

Date Received in Lab: Wed Feb-11-09 03:15 pm

Report Date: 17-FEB-09

Project Manager: Brent Barron, II

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 324728-001 | 324728-002 | 324728-003 | 324728-004 | 324728-005 | |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| | <i>Field Id:</i> | TP 1 @ 25' | TP 2 @ 70' | TP 3 @ 35' | TP 4 @ 25' | TP 5 @ 70' | |
| | <i>Depth:</i> | 25 ft | 70 ft | 35 ft | 25 ft | 70 ft | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | <i>Sampled:</i> | Feb-10-09 12:25 | Feb-10-09 15:45 | Feb-10-09 13:19 | Feb-10-09 11:45 | Feb-10-09 11:05 | |
| Anions by EPA 300 | <i>Extracted:</i> | Feb-14-09 14:17 | |
| | <i>Analyzed:</i> | Feb-14-09 14:17 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Chloride | | 42.3 5.10 | 40.3 5.06 | 37.3 5.16 | 58.3 5.09 | 35.1 5.09 | |
| Percent Moisture | <i>Extracted:</i> | Feb-11-09 17:00 | |
| | <i>Analyzed:</i> | Feb-11-09 17:00 | |
| | <i>Units/RL:</i> | % RL | |
| Percent Moisture | | 1.96 1.00 | 1.20 1.00 | 3.03 1.00 | 1.83 1.00 | 1.73 1.00 | |
| TPH By SW8015 Mod | <i>Extracted:</i> | Feb-12-09 19:19 | |
| | <i>Analyzed:</i> | Feb-13-09 09:51 | Feb-13-09 10:16 | Feb-13-09 10:40 | Feb-13-09 11:04 | Feb-13-09 11:28 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| C6-C12 Gasoline Range Hydrocarbons | | ND 15.3 | ND 15.2 | ND 15.5 | ND 15.3 | ND 15.3 | |
| C12-C28 Diesel Range Hydrocarbons | | 22.8 15.3 | 78.0 15.2 | ND 15.5 | ND 15.3 | 15.8 15.3 | |
| C28-C35 Oil Range Hydrocarbons | | ND 15.3 | ND 15.2 | ND 15.5 | ND 15.3 | ND 15.3 | |
| Total TPH | | 22.8 15.3 | 78 15.2 | ND 15.5 | ND 15.3 | 15.8 15.3 | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


Brent Barron
Odessa Laboratory Director

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

- F** RPD exceeded lab control limits.

- J** The target analyte was positively identified below the MQL and above the SQL.

- U** Analyte was not detected.

- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

- K** Sample analyzed outside of recommended hold time.

- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

- * Outside XENCO's scope of NELAC Accreditation.**

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

4143 Greenbriar Dr, Stafford, Tx 77477
9701 Harry Hines Blvd , Dallas, TX 75220
5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

| Phone | Fax |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (432) 563-1800 | (432) 563-1713 |
| (361) 884-0371 | (361) 884-9116 |



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 324728,

Project ID: Todd Lower San Andres # 8

Lab Batch #: 749564

Sample: 324701-009 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 125 | 100 | 125 | 70-135 | |
| o-Terphenyl | 55.8 | 50.0 | 112 | 70-135 | |

Lab Batch #: 749564

Sample: 324701-009 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 123 | 100 | 123 | 70-135 | |
| o-Terphenyl | 54.7 | 50.0 | 109 | 70-135 | |

Lab Batch #: 749564

Sample: 324728-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | 57.2 | 50.0 | 114 | 70-135 | |

Lab Batch #: 749564

Sample: 324728-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | 57.0 | 50.0 | 114 | 70-135 | |

Lab Batch #: 749564

Sample: 324728-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1-Chlorooctane | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | 57.2 | 50.0 | 114 | 70-135 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 324728,

Project ID: Todd Lower San Andres # 8

Lab Batch #: 749564

Sample: 324728-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

| SURROGATE RECOVERY STUDY | | | | | |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | 57.7 | 50.0 | 115 | 70-135 | |

Lab Batch #: 749564

Sample: 324728-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

| SURROGATE RECOVERY STUDY | | | | | |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 106 | 100 | 106 | 70-135 | |
| o-Terphenyl | 58.8 | 50.0 | 118 | 70-135 | |

Lab Batch #: 749564

Sample: 524748-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

| SURROGATE RECOVERY STUDY | | | | | |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 120 | 100 | 120 | 70-135 | |
| o-Terphenyl | 52.7 | 50.0 | 105 | 70-135 | |

Lab Batch #: 749564

Sample: 524748-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

| SURROGATE RECOVERY STUDY | | | | | |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 102 | 100 | 102 | 70-135 | |
| o-Terphenyl | 56.3 | 50.0 | 113 | 70-135 | |

Lab Batch #: 749564

Sample: 524748-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

| SURROGATE RECOVERY STUDY | | | | | |
|-------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| TPH By SW8015 Mod Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1-Chlorooctane | 119 | 100 | 119 | 70-135 | |
| o-Terphenyl | 51.5 | 50.0 | 103 | 70-135 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Oxy USA

Work Order #: 324728

Project ID: Todd Lower San Andres # 8

Lab Batch #: 749692

Sample: 749692-1-BKS

Matrix: Solid

Date Analyzed: 02/14/2009

Date Prepared: 02/14/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Anions by EPA 300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|-----------------------------------|---------------------|--------------------|---------------------------|-----------------------|----------------------|-------|
| Chloride | ND | 10.0 | 10.9 | 109 | 90-110 | |

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Oxy USA

Work Order #: 324728

Analyst: BHW

Lab Batch ID: 749564

Units: mg/kg

Sample: 524748-1-BKS

Date Prepared: 02/12/2009

Batch #: 1

Project ID: Todd Lower San Andres # 8

Date Analyzed: 02/13/2009

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH By SW8015 Mod | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|------------------------------------|-------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| Analytes | | | | | | | | | | | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1000 | 1150 | 115 | 1000 | 1160 | 116 | 1 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1000 | 1070 | 107 | 1000 | 1060 | 106 | 1 | 70-135 | 35 | |

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Oxy USA

Work Order #: 324728

Lab Batch #: 749692

Project ID: Todd Lower San Andres # 8

Date Analyzed: 02/14/2009

Date Prepared: 02/14/2009

Analyst: LATCOR

QC- Sample ID: 324701-061 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

| Inorganic Anions by EPA 300 | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|-----------------------------|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| Analytes | | | | | | |
| Chloride | 17300 | 4690 | 11500 | 0 | 80-120 | X |

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A) / B$
 Relative Percent Difference [E] = $200 \cdot (C-A) / (C+B)$
 All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Oxy USA

Work Order #: 324728

Project ID: Todd Lower San Andres # 8

Lab Batch ID: 749564

QC- Sample ID: 324701-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/13/2009

Date Prepared: 02/12/2009

Analyst: BHW

Reporting Units: mg/kg

| MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|--|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| TPH By SW8015 Mod Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1110 | 1250 | 113 | 1110 | 1230 | 111 | 2 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1110 | 1180 | 106 | 1110 | 1160 | 105 | 2 | 70-135 | 35 | |

Matrix Spike Percent Recovery $[D] = 100 * (C-A) / B$
Relative Percent Difference $RPD = 200 * [(C-F) / (C+F)]$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F-A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 324728

Lab Batch #: 749692

Date Analyzed: 02/14/2009

QC- Sample ID: 324701-061 D

Reporting Units: mg/kg

Project ID: Todd Lower San Andres # 8

Analyst: LATCOR

Date Prepared: 02/14/2009

Batch #: 1

Matrix: Soil

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Chloride | 17300 | 18200 | 5 | 20 | |

Lab Batch #: 749332

Date Analyzed: 02/11/2009

QC- Sample ID: 324687-010 D

Reporting Units: %

Date Prepared: 02/11/2009

Analyst: BEV

Batch #: 1

Matrix: Soil

| SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | | |
|------------------------------------|--------------------------|-----------------------------|-----|---------------------|------|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Percent Moisture | 8.59 | 7.24 | 17 | 20 | |

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: EIKC Env.
 Date/ Time: 2-11-09 15:15
 Lab ID #: 324728
 Initials: CL

Sample Receipt Checklist

| | | | Client Initials |
|-----|--|---|-----------------------------|
| #1 | Temperature of container/ cooler? | <input checked="" type="checkbox"/> Yes | No 5.0 °C |
| #2 | Shipping container in good condition? | <input checked="" type="checkbox"/> Yes | No |
| #3 | Custody Seals intact on shipping container/ cooler? | <input checked="" type="checkbox"/> Yes | No Not Present |
| #4 | Custody Seals intact on sample bottles/ container? | <input checked="" type="checkbox"/> Yes | No Not Present |
| #5 | Chain of Custody present? | <input checked="" type="checkbox"/> Yes | No |
| #6 | Sample instructions complete of Chain of Custody? | <input checked="" type="checkbox"/> Yes | No |
| #7 | Chain of Custody signed when relinquished/ received? | <input checked="" type="checkbox"/> Yes | No |
| #8 | Chain of Custody agrees with sample label(s)? | <input checked="" type="checkbox"/> Yes | No ID written on Cont./ Lid |
| #9 | Container label(s) legible and intact? | <input checked="" type="checkbox"/> Yes | No Not Applicable |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <input checked="" type="checkbox"/> Yes | No |
| #11 | Containers supplied by ELOT? | <input checked="" type="checkbox"/> Yes | No |
| #12 | Samples in proper container/ bottle? | <input checked="" type="checkbox"/> Yes | No See Below |
| #13 | Samples properly preserved? | <input checked="" type="checkbox"/> Yes | No See Below |
| #14 | Sample bottles intact? | <input checked="" type="checkbox"/> Yes | No |
| #15 | Preservations documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | No |
| #16 | Containers documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | No |
| #17 | Sufficient sample amount for indicated test(s)? | <input checked="" type="checkbox"/> Yes | No See Below |
| #18 | All samples received within sufficient hold time? | <input checked="" type="checkbox"/> Yes | No See Below |
| #19 | Subcontract of sample(s)? | <input checked="" type="checkbox"/> Yes | No Not Applicable |
| #20 | VOC samples have zero headspace? | <input checked="" type="checkbox"/> Yes | No Not Applicable |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____
 Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event