



- M E M O R A N D U M -

DATE: February 11, 2011
TO: Michael Gange, City of Fort Worth
FROM: Mike Pring, Eastern Research Group (ERG)
David Ranum, Sage Environmental Consulting, L.P.
RE: Interim Point Source Testing Report

At the request of the City of Fort Worth, this interim report has been prepared to present preliminary results from Phase I of the point source testing effort (testing conducted from August 30, 2010 to October 22, 2010). These results are presented in the attached three tables:

- Table 1 presents aggregate emission results in lb/yr for Total Organic Carbons (TOCs), Volatile Organic Compounds (VOCs), and Hazardous Air Pollutants (HAPs) (both total HAP and individual HAP) for those sites in which canister samples were collected. Emission results in ton/yr are presented for TOC, VOC, and total HAP. Estimated annual emission rates were calculated from the test data, assuming the measured emissions on the day of testing are representative of the emissions that occur over the year. Combustion-related emissions (compressor engines) are not included in these interim results.
- Table 2 lists those sites in which no emissions were detected with the IR Camera or with the TVA.
- Table 3 lists sites where emissions were detected but those emissions have not yet been quantified.

These results are preliminary and are subject to change. In particular, at many sites only a single Summa canister sample (either from a Tank or a Non-Tank emission point) was taken and used to characterize compound-specific emissions. Since the chemical profile of Tank emissions can differ from Non-Tank emissions, results from a single Summa canister sample may not be typical of all emissions at the site. As such, the emissions estimate for these sites will likely be revised in the final report.

Two technologies were used to detect emissions. All site components were surveyed with an IR camera to detect emissions with a concentration greater than 10,000 parts per million (ppm). In addition, at least 10% of the valves and connectors at each site were screened by EPA Method 21 using a Toxic Vapor Analyzer (TVA) to detect emissions with concentrations between 500 ppm and 10,000 ppm. All detected emissions were tested with a High Flow Sampler in order to determine emission rates. These data were combined with compound-specific speciation data obtained from the Summa canister analysis to determine pollutant-specific emission rates for each site.

As shown in Table 1, VOC emission rates ranged from less than one pound per year to more than 100 tons per year, and Total HAP emissions ranged from less than one pound per year to more than 10 tons per year. Based on these interim findings, no major HAP sources have been identified (defined as emissions exceeding 10 tons per year of a single HAP or 25 tons per year of total HAP), and only two well pads have emissions that would exceed TCEQ's Permit-by-Rule Threshold of 25 tons per year of VOC.

TABLE 1. POINT SOURCE EMISSIONS (PRELIMINARY)

| Date | ID | Address | Type | # Wells | # Tanks | # Compressors | # Valves | # Connectors | # IR Emission Points | # Minor Emission Points | TOC | | TOTAL VOC | | TOTAL HAPS | |
|--------------|-----|--|----------------------|---------|---------|------------------|----------|--------------|----------------------|-------------------------|-----------|-----------|------------|-----------|------------|-----------|
| | | | | | | | | | | | (lb/yr) | (tons/yr) | (lb/yr) | (tons/yr) | (lb/yr) | (tons/yr) |
| 12-18 Oct-10 | 159 | 10488 Hicks Field Road | Processing Facility | 0 | 10 | 12 | 1,800 | 12,590 | 67 | 10 | 736,961 | 368 | 222.61 | 0.11 | 29.03 | 0.01 |
| 27-Sep-10 | 118 | Barnett Compressor Station 590 NW Loop 820 | Compressor Station | 0 | 3 | 6 | 1,414 | 9,880 | 7 | 2 | 31,986 | 16 | 137.06 | 0.07 | 8.87 | 0.00 |
| 28-Sep-10 | 119 | Quicksilver Compressor Station 6900 E. Rosedale | Compressor Station | 0 | 8 | 4 gas/3 electric | 985 | 6,895 | 9 | 5 | 58,817 | 29 | 12.33 | 0.01 | 1.71 | 0.00 |
| 29-Sep-10 | 120 | 4th St. Compressor Station 2298 E 4St | Compressor Station | 0 | 1 | 1 | 325 | 2,548 | 11 | 2 | 102,538 | 51 | 67.93 | 0.03 | 6.78 | 0.00 |
| 29-Sep-10 | 121 | 7091 Oak Grove | Compressor Station | 0 | 0 | 1 | 151 | 1,208 | 3 | 0 | 26,662 | 13 | 5.07 | 0.00 | 0.54 | 0.00 |
| 30-Sep-10 | 123 | 7695 Oak Grove | Compressor Station | 0 | 0 | 2 | 204 | 1,408 | 6 | 5 | 65,205 | 33 | 9.90 | 0.00 | 0.75 | 0.00 |
| 30-Sep-10 | 125 | 7997 S Freeway I-35 | Compressor Station | 0 | 0 | 1 | 357 | 4,020 | 13 | 7 | 68,851 | 34 | 11.43 | 0.01 | 0.97 | 0.00 |
| 01-Oct-10 | 127 | 5296 Bailey Boswell | Compressor Station | 0 | 4 | 2 | 414 | 2,896 | 11 | 6 | 42 | 0 | 0.02 | 0.00 | 0.01 | 0.00 |
| 05-Oct-10 | 134 | 5199 Village Creek Rd | Completion Operation | NA | 4 | NA | NA | NA | 1 | 5 | 53,659 | 27 | 21.36 | 0.01 | 4.46 | 0.00 |
| 7-Sep-10 | 12 | 12601 Katy Rd | Well Pad | 1 | 2 | 1 | 207 | 1,149 | 4 | 0 | 443,698 | 222 | 13.63 | 0.01 | 1.85 | 0.00 |
| 7-Sep-10 | 13 | Caylor Road | Well Pad | 1 | 1 | 0 | 65 | 390 | 1 | 1 | 16,051 | 8 | 0.51 | 0.00 | 0.10 | 0.00 |
| 7-Sep-10 | 14 | 12497 Old Denton Rd. | Well Pad | 1 | 0 | 0 | 8 | 48 | 0 | 0 | 7,497 | 4 | 1.30 | 0.00 | 0.24 | 0.00 |
| 7-Sep-10 | 17 | 12498 Alta Vista | Well Pad | 1 | 1 | 1 | 105 | 735 | 3 | 1 | 21,674 | 11 | 0.89 | 0.00 | 0.14 | 0.00 |
| 09-Sep-10 | 22 | 2898 Hwy 114 | Well Pad | 2 | 2 | 0 | 87 | 609 | 0 | 1 | 912 | 0 | 0.14 | 0.00 | 0.11 | 0.00 |
| 09-Sep-10 | 32 | 11591 Trinity Blvd | Well Pad | 1 | 1 | 0 | 78 | 468 | 2 | 1 | 8,919 | 4 | 1.57 | 0.00 | 0.92 | 0.00 |
| 09-Sep-10 | 33 | 11696 Mosier Valley Rd | Well Pad | 4 | 4 | 0 | 255 | 1,300 | 4 | 3 | 75,741 | 38 | 8.46 | 0.00 | 2.78 | 0.00 |
| 13-Sep-10 | 35 | 141931 John Day Rd - C Pad | Well Pad | 1 | 1 | 0 | 50 | 350 | 2 | 3 | 11,560 | 6 | 17.69 | 0.01 | 0.94 | 0.00 |
| 13-Sep-10 | 36 | 141931 John Day Rd - A Pad | Well Pad | 2 | 2 | 0 | 117 | 819 | 1 | 1 | 5,149 | 3 | 7.28 | 0.00 | 0.48 | 0.00 |
| 14-Sep-10 | 46 | 10896 Trinity Blvd | Well Pad | 2 | 3 | 0 | 255 | 1,785 | 4 | 1 | 1 | 0 | 0.51 | 0.00 | 0.03 | 0.00 |
| 15-Sep-10 | 47 | 1480 Avondale Haslet Rd "Morris Harmonson" E - Pad | Well Pad | 3 | 3 | 0 | 203 | 1,421 | 4 | 4 | 41,232 | 21 | 7.69 | 0.00 | 1.35 | 0.00 |
| 15-Sep-10 | 52 | 694 Avondale Haslet "LBJ" K - Pad | Well Pad | 2 | 2 | 0 | 127 | 889 | 1 | 1 | 16,961 | 8 | 2.28 | 0.00 | 0.30 | 0.00 |
| 15-Sep-10 | 57 | 4950 Paint Horse Dr. | Well Pad | 6 | 3 | 0 | 291 | 2,037 | 8 | 7 | 6,044 | 3 | 10.06 | 0.01 | 1.25 | 0.00 |
| 16-Sep-10 | 59 | 694 Avondale Haslet Rd (LBJ A - Pad) | Well Pad | 1 | 1 | 0 | 62 | 434 | 1 | 2 | 6,584 | 3 | 9.09 | 0.00 | 7.13 | 0.00 |
| 16-Sep-10 | 61 | 694 Avondale Haslet Rd (LBJ E - Pad) | Well Pad | 1 | 1 | 0 | 69 | 414 | 1 | 1 | 27,561 | 14 | 5.58 | 0.00 | 1.22 | 0.00 |
| 16-Sep-10 | 66 | 3399 E Long Ave | Well Pad | 5 | 3 | 3 | 472 | 5,345 | 18 | 11 | 104,615 | 52 | 39.57 | 0.02 | 3.66 | 0.00 |
| 17-Sep-10 | 67 | 694 Avondale Haslet Rd (LBJ G - Pad) | Well Pad | 2 | 3 | 0 | 118 | 708 | 1 | 2 | 4,607 | 2 | 0.54 | 0.00 | 0.08 | 0.00 |
| 17-Sep-10 | 70 | 694 Avondale Haslet Rd (LBJ M - Pad) | Well Pad | 3 | 3 | 0 | 200 | 1,230 | 2 | 3 | 30,017 | 15 | 3.14 | 0.00 | 0.47 | 0.00 |
| 17-Sep-10 | 72 | 2292 N Tarrant Pkwy | Well Pad | 4 | 8 | 1 | 438 | 3,456 | 9 | 14 | 113,271 | 57 | 6.76 | 0.00 | 1.10 | 0.00 |
| 20-Sep-10 | 74 | 693 Avondale Haslet "LBJ" N - Pad | Well Pad | 1 | 1 | 0 | 65 | 390 | 1 | 0 | 6,904 | 3 | 0.65 | 0.00 | 0.09 | 0.00 |
| 20-Sep-10 | 75 | 693 Avondale Haslet "LBJ" Q - Pad | Well Pad | 2 | 4 | 0 | 126 | 882 | 1 | 2 | 0.05 | 0 | 0.03 | 0.00 | 0.01 | 0.00 |
| 20-Sep-10 | 79 | 1301 Bluff Springs Rd "Boaz C" Pad | Well Pad | 1 | 1 | 0 | 60 | 360 | 1 | 0 | 7,484 | 4 | 0.87 | 0.00 | 0.12 | 0.00 |
| 20-Sep-10 | 82 | 8191 Horseman Rd | Well Pad | 4 | 6 | 1 | 508 | 3,646 | 4 | 8 | 46,657 | 23 | 3.45 | 0.00 | 0.54 | 0.00 |
| 20-Sep-10 | 83 | 9191 Blue Mound Rd | Well Pad | 1 | 3 | 1 | 152 | 1,064 | 4 | 4 | 110,591 | 55 | 6.56 | 0.00 | 1.01 | 0.00 |
| 20-Sep-10 | 85 | 2591 Basswood Blvd | Well Pad | 4 | 6 | 1 | 368 | 2,100 | 5 | 4 | 59,026 | 30 | 6.04 | 0.00 | 1.19 | 0.00 |
| 21-Sep-10 | 86 | 11398 West FWY | Well Pad | 3 | 6 | 0 | 217 | 1,519 | 8 | 4 | 85,612 | 43 | 85,611.07 | 42.81 | 20,931.96 | 10.47 |
| 21-Sep-10 | 87 | 4496 Lost Creek Blvd. | Well Pad | 1 | 4 | 0 | 83 | 581 | 2 | 4 | 10,329 | 5 | 1,147.42 | 0.57 | 121.25 | 0.06 |
| 21-Sep-10 | 90 | 14193 John Day Rd Pad I | Well Pad | 2 | 2 | 0 | 101 | 707 | 1 | 3 | 10 | 0 | 6.51 | 0.00 | 2.81 | 0.00 |
| 21-Sep-10 | 93 | 14193 John Day Rd Pad K | Well Pad | 4 | 3 | 0 | 198 | 1,336 | 1 | 1 | 3,797 | 2 | 2.47 | 0.00 | 0.26 | 0.00 |
| 22-Sep-10 | 102 | 9767 Verna Trail N | Well Pad | 4 | 4 | 0 | 288 | 1,816 | 4 | 5 | 21,046 | 11 | 389.44 | 0.19 | 58.05 | 0.03 |
| 27-Sep-10 | 117 | XTO Compressor Station 3595 Angle Rd | Well Pad | 7 | 6 | 1 | 31 | 207 | 4 | 0 | 25,619 | 13 | 17.59 | 0.01 | 2.31 | 0.00 |
| 29-Sep-10 | 122 | 7091 Oak Grove | Well Pad | 4 | 4 | 0 | 208 | 1,456 | 5 | 3 | 57,076 | 29 | 13.49 | 0.01 | 3.16 | 0.00 |
| 30-Sep-10 | 124 | 7695 Oak Grove | Well Pad | 5 | 6 | 0 | 242 | 1,694 | 5 | 1 | 17,414 | 9 | 3.04 | 0.00 | 0.26 | 0.00 |
| 30-Sep-10 | 126 | 7997 S Freeway I-35 | Well Pad | 2 | 4 | 0 | 128 | 896 | 4 | 1 | 12,879 | 6 | 18.58 | 0.01 | 11.16 | 0.01 |
| 04-Oct-10 | 129 | 10091 Old Granbury Rd | Well Pad | 3 | 4 | 1 | 212 | 1,913 | 9 | 2 | 1,022,018 | 511 | 2,477.60 | 1.24 | 184.44 | 0.09 |
| 04-Oct-10 | 130 | 6597 Oak Grove | Well Pad | 5 | 5 | 0 | 517 | 3,619 | 7 | 1 | 304,721 | 152 | 443.65 | 0.22 | 266.71 | 0.13 |
| 04-Oct-10 | 131 | 6798 Oak Grove | Well Pad | 3 | 3 | 1 | 244 | 2,458 | 3 | 1 | 26,312 | 13 | 4.86 | 0.00 | 0.66 | 0.00 |
| 05-Oct-10 | 132 | 2795 Quail Rd. "Exelon" | Well Pad | 12 | 4 | 0 | 338 | 2,296 | 3 | 3 | 52,073 | 26 | 44.16 | 0.02 | 36.78 | 0.02 |
| 05-Oct-10 | 133 | 6099 Wilbarger "Olcott South" | Well Pad | 10 | 6 | 0 | 613 | 4,291 | 5 | 6 | 228,438 | 114 | 33.74 | 0.02 | 7.47 | 0.00 |
| 05-Oct-10 | 135 | 6293 Hatchery Rd | Well Pad | 5 | 5 | 1 | 279 | 1,953 | 17 | 1 | 68,560 | 34 | 786.57 | 0.39 | 35.27 | 0.02 |
| 06-Oct-10 | 136 | 6497 Shady Oaks Manor Rd | Well Pad | 3 | 3 | 1 | 232 | 2,027 | 12 | 3 | 87,169 | 44 | 698.29 | 0.35 | 38.09 | 0.02 |
| 07-Oct-10 | 140 | 6896 NW LOOP 820 | Well Pad | 4 | 4 | 0 | 227 | 1,589 | 5 | 2 | 16,061 | 8 | 88.67 | 0.04 | 6.65 | 0.00 |
| 13-Oct-10 | 164 | 14091 Stone Road | Well Pad | 4 | 4 | 2 | 260 | 1,820 | 6 | 5 | 27,115 | 14 | 4.18 | 0.00 | 0.44 | 0.00 |
| 14-Oct-10 | 170 | 4697 Enon Rd. "Karanges" | Well Pad | 3 | 3 | 1 | 273 | 1,911 | 6 | 0 | 221,500 | 111 | 29.29 | 0.01 | 3.55 | 0.00 |
| 14-Oct-10 | 171 | 3892 Lon Stevenson Rd "Walls Coleman | Well Pad | 4 | 4 | 2 | 433 | 3,031 | 6 | 3 | 211,153 | 106 | 21.62 | 0.01 | 1.41 | 0.00 |
| 15-Oct-10 | 173 | 2999 Lana Lane "Hosler" | Well Pad | 3 | 5 | 0 | 183 | 1,231 | 1 | 3 | 84,524 | 42 | 13.82 | 0.01 | 2.44 | 0.00 |
| 18-Oct-10 | 176 | 1375 Oak Grove Shelby Rd | Well Pad | 1 | 1 | 0 | 54 | 378 | 2 | 2 | 166,263 | 83 | 42.33 | 0.02 | 5.69 | 0.00 |
| 18-Oct-10 | 178 | 10198 Forest Hill Everman Rd | Well Pad | 2 | 2 | 1 | 183 | 1,775 | 2 | 1 | 227,347 | 114 | 30.56 | 0.02 | 2.92 | 0.00 |
| 18-Oct-10 | 181 | 3298 Van Horn Ave | Well Pad | 1 | 3 | 0 | 75 | 525 | 2 | 1 | 28,877 | 14 | 24.80 | 0.01 | 3.31 | 0.00 |
| 19-Oct-10 | 184 | 10590 Chapin Road | Well Pad | 1 | 2 | 1 | 144 | 2,408 | 12 | 0 | 102 | 0 | 101.58 | 0.05 | 10.33 | 0.01 |
| 19-Oct-10 | 185 | 10199 Oak Grove Road | Well Pad | 3 | 3 | 0 | 143 | 1,001 | 2 | 0 | 31,487 | 16 | 3.93 | 0.00 | 0.50 | 0.00 |
| 19-Oct-10 | 187 | 9198 Forum Way | Well Pad | 3 | 3 | 0 | 166 | 1,162 | 4 | 3 | 51,889 | 26 | 10.37 | 0.01 | 1.77 | 0.00 |
| 20-Oct-10 | 191 | 3592 Deen Road | Well Pad | 3 | 3 | 0 | 173 | 1,211 | 4 | 3 | 116,741 | 58 | 182.65 | 0.09 | 19.49 | 0.01 |
| 20-Oct-10 | 192 | 2299 Mercado Dr. | Well Pad | 10 | 13 | 2 | 616 | 4,312 | 12 | 6 | 573,327 | 287 | 207,567.60 | 103.78 | 3,856.94 | 1.93 |
| 21-Oct-10 | 196 | 792 De Costa | Well Pad | 4 | 3 | 0 | 215 | 1,405 | 8 | 0 | 8 | 0 | 0.02 | 0.00 | 0.01 | 0.00 |
| 21-Oct-10 | 197 | 692 Beach St. | Well Pad | 1 | 3 | 1 | 215 | 1,405 | 7 | 2 | 162,910 | 81 | 148.19 | 0.07 | 58.72 | 0.03 |
| 21-Oct-10 | 201 | 5895 Marine Creek Pkwy | Well Pad | 2 | 3 | 1 | 183 | 1,645 | 6 | 2 | 95,565 | 48 | 144.49 | 0.07 | 14.76 | 0.01 |

ABBREVIATIONS

ID = Point Source Identification Number
 IR = Infrared Camera
 TOC = Total Organic Carbon. TOC = NonVOC+VOCs+HAPs
 VOC = Volatile Organic Compound. VOCs = VOCs+HAPs
 HAP = Hazardous Air Pollutant

TABLE 1. POINT SOURCE EMISSIONS (PRELIMINARY)

| Date | ID | Address | Type | HAZARDOUS AIR POLLUTANTS (HAPS) | | | | | | | | | | | | | | | | | | | Flag |
|--------------|-----|--|----------------------|---------------------------------|--------------------|------------------|---------------|------------------|----------|---------|--------------|-------------------------|----------|--------------------|---------------|---------------------|---------|----------|-------------------|------------------|-------------------------|-------------|------|
| | | | | (lb/year) | | | | | | | | | | | | | | | | | | | |
| | | | | Chloro-methane | Methylene Chloride | Carbon Disulfide | Vinyl Acetate | 2-Butanone (MEK) | Hexane | Benzene | Cyclo-hexane | 2,2,4-Trimethyl-pentane | Toluene | Tetrachloro-ethene | Ethyl-benzene | m-Xylene & p-Xylene | Styrene | o-Xylene | Isopropyl-benzene | n-Propyl-benzene | 1,2,4-Trimethyl-benzene | Naphthalene | |
| 12-18 Oct-10 | 159 | 10488 Hicks Field Road | Processing Facility | 0.07 | 0.16 | - | - | - | 6.35 | 9.76 | 8.25 | - | 3.74 | - | 0.12 | 0.45 | - | 0.13 | - | - | - | - | A,B |
| 27-Sep-10 | 118 | Barnett Compressor Station 590 NW Loop 820 | Compressor Station | - | 0.01 | - | - | - | 2.66 | 1.68 | 2.48 | - | 1.92 | - | 0.01 | 0.11 | - | - | - | - | - | - | A,B |
| 28-Sep-10 | 119 | Quicksilver Compressor Station 6900 E. Rosedale | Compressor Station | - | 0.01 | - | - | - | 0.06 | 0.89 | 0.36 | - | 0.39 | - | - | - | - | - | - | - | - | - | A |
| 29-Sep-10 | 120 | 4th St. Compressor Station 2298 E 4St | Compressor Station | - | 0.01 | - | - | - | 0.61 | 2.16 | 2.87 | - | 1.13 | - | - | - | - | - | - | - | - | - | A,B |
| 29-Sep-10 | 121 | 7091 Oak Grove | Compressor Station | - | 0.02 | - | - | - | - | 0.26 | 0.08 | - | 0.12 | - | - | - | - | - | - | - | 0.05 | - | - |
| 30-Sep-10 | 123 | 7695 Oak Grove | Compressor Station | - | 0.01 | - | - | - | 0.01 | 0.42 | 0.14 | - | 0.17 | - | - | - | - | - | - | - | - | - | - |
| 30-Sep-10 | 125 | 7997 S Freeway I-35 | Compressor Station | - | 0.03 | - | - | - | - | 0.47 | 0.16 | - | 0.23 | - | - | - | - | - | - | - | 0.09 | - | A |
| 01-Oct-10 | 127 | 5296 Bailey Boswell | Compressor Station | - | 0.00 | 0.00 | - | - | 0.00 | 0.00 | 0.00 | - | 0.00 | - | 0.00 | 0.00 | - | 0.00 | - | - | - | - | B |
| 05-Oct-10 | 134 | 5199 Village Creek Rd | Completion Operation | - | 0.01 | - | - | - | 0.17 | 1.74 | 0.94 | - | 1.16 | - | 0.01 | 0.07 | - | 0.02 | 0.01 | 0.05 | 0.28 | - | - |
| 7-Sep-10 | 12 | 12601 Katy Rd | Well Pad | - | 0.06 | - | - | - | 0.02 | 1.06 | 0.38 | - | 0.33 | - | - | - | - | - | - | - | - | - | - |
| 7-Sep-10 | 13 | Caylor Road | Well Pad | - | 0.01 | - | - | - | - | 0.04 | 0.02 | - | 0.04 | - | - | - | - | - | - | - | - | - | A |
| 7-Sep-10 | 14 | 12497 Old Denton Rd. | Well Pad | - | 0.03 | - | - | - | 0.02 | 0.10 | 0.03 | - | 0.07 | - | - | - | - | - | - | - | - | - | - |
| 7-Sep-10 | 17 | 12498 Alta Vista | Well Pad | - | 0.01 | - | - | - | - | 0.07 | 0.03 | - | 0.03 | - | - | - | - | - | - | - | - | - | - |
| 09-Sep-10 | 22 | 2898 Hwy 114 | Well Pad | - | 0.01 | - | - | - | - | 0.07 | - | - | 0.03 | - | - | - | - | - | - | - | - | - | - |
| 09-Sep-10 | 32 | 11591 Trinity Blvd | Well Pad | - | 0.02 | - | - | - | - | 0.68 | 0.02 | - | 0.20 | - | - | - | - | - | - | - | - | - | - |
| 09-Sep-10 | 33 | 11696 Mosier Valley Rd | Well Pad | - | 0.02 | - | - | - | 0.05 | 1.90 | 0.22 | - | 0.59 | - | - | - | - | - | - | - | - | - | - |
| 13-Sep-10 | 35 | 141931 John Day Rd - C Pad | Well Pad | - | 0.01 | - | - | - | 0.34 | 0.20 | 0.19 | 0.01 | 0.18 | - | - | - | - | - | - | - | - | - | - |
| 13-Sep-10 | 36 | 141931 John Day Rd - A Pad | Well Pad | - | 0.01 | - | - | - | 0.08 | 0.18 | 0.08 | - | 0.14 | - | - | - | - | - | - | - | - | - | - |
| 14-Sep-10 | 46 | 10896 Trinity Blvd | Well Pad | - | 0.03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A |
| 15-Sep-10 | 47 | 1480 Avondale Haslet Rd "Morris Harmonson" E - Pad | Well Pad | - | 0.23 | - | - | - | - | 0.72 | - | - | 0.40 | - | - | - | - | - | - | - | - | - | B |
| 15-Sep-10 | 52 | 694 Avondale Haslet "LBJ" K - Pad | Well Pad | - | 0.01 | - | - | - | 0.02 | 0.16 | 0.05 | - | 0.06 | - | - | - | - | - | - | - | - | - | - |
| 15-Sep-10 | 57 | 4950 Paint Horse Dr. | Well Pad | - | 0.01 | - | - | - | 0.03 | 0.64 | 0.26 | - | 0.31 | - | - | - | - | - | - | - | - | - | A,B |
| 16-Sep-10 | 59 | 694 Avondale Haslet Rd (LBJ A - Pad) | Well Pad | - | 0.02 | 0.03 | - | - | - | 4.63 | 0.12 | - | 2.01 | - | 0.03 | 0.18 | - | 0.05 | - | - | 0.05 | - | B |
| 16-Sep-10 | 61 | 694 Avondale Haslet Rd (LBJ E - Pad) | Well Pad | - | 0.01 | - | - | - | 0.03 | 0.79 | 0.13 | - | 0.26 | - | - | - | - | - | - | - | - | - | - |
| 16-Sep-10 | 66 | 3399 E Long Ave | Well Pad | - | 0.08 | - | - | - | - | 1.87 | 0.79 | - | 0.92 | - | - | - | - | - | - | - | - | - | A,B |
| 17-Sep-10 | 67 | 694 Avondale Haslet Rd (LBJ G - Pad) | Well Pad | - | 0.01 | - | - | - | - | 0.04 | 0.01 | - | 0.02 | - | - | - | - | - | - | - | - | - | - |
| 17-Sep-10 | 70 | 694 Avondale Haslet Rd (LBJ M - Pad) | Well Pad | - | 0.02 | - | - | - | 0.30 | 0.06 | - | - | 0.08 | - | - | - | - | - | - | - | - | - | A |
| 17-Sep-10 | 72 | 2292 N Tarrant Pkwy | Well Pad | - | 0.16 | - | - | - | - | 0.55 | 0.15 | - | 0.24 | - | - | - | - | - | - | - | - | - | B |
| 20-Sep-10 | 74 | 693 Avondale Haslet "LBJ" N - Pad | Well Pad | - | 0.01 | - | - | - | - | 0.05 | 0.01 | - | 0.02 | - | - | - | - | - | - | - | - | - | - |
| 20-Sep-10 | 75 | 693 Avondale Haslet "LBJ" Q - Pad | Well Pad | - | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-Sep-10 | 79 | 1301 Bluff Springs Rd "Boaz C" Pad | Well Pad | - | 0.01 | - | - | - | - | 0.07 | 0.02 | - | 0.03 | - | - | - | - | - | - | - | - | - | - |
| 20-Sep-10 | 82 | 8191 Horseman Rd | Well Pad | - | 0.07 | - | - | - | - | 0.30 | 0.07 | - | 0.10 | - | - | - | - | - | - | - | - | - | - |
| 20-Sep-10 | 83 | 9191 Blue Mound Rd | Well Pad | - | 0.02 | - | - | - | 0.01 | 0.54 | 0.19 | - | 0.24 | - | - | - | - | - | - | - | - | - | - |
| 20-Sep-10 | 85 | 2591 Bassword Blvd | Well Pad | - | 0.01 | 0.02 | - | 0.01 | 0.38 | 0.35 | 0.09 | - | 0.26 | - | 0.01 | 0.05 | - | - | - | - | 0.01 | - | - |
| 21-Sep-10 | 86 | 11398 West FWY | Well Pad | - | 0.12 | - | - | - | 3,851.27 | 146.97 | 1,229.36 | - | 5,646.03 | - | 88.57 | 9,779.25 | - | 177.45 | 3.47 | 2.29 | 7.19 | - | B |
| 21-Sep-10 | 87 | 4496 Lost Creek Blvd. | Well Pad | - | 0.02 | - | - | - | 67.42 | 4.63 | 19.35 | 0.06 | 17.63 | - | 0.61 | 10.59 | - | 0.88 | 0.03 | - | - | - | - |
| 21-Sep-10 | 90 | 14193 John Day Rd Pad I | Well Pad | - | 0.18 | - | - | - | 0.09 | 1.28 | - | - | 1.25 | - | - | - | - | - | - | - | - | - | A,B |
| 21-Sep-10 | 93 | 14193 John Day Rd Pad K | Well Pad | - | 0.01 | - | - | - | 0.06 | 0.10 | 0.04 | - | 0.06 | - | - | - | - | - | - | - | - | - | A |
| 22-Sep-10 | 102 | 9767 Verna Trail N | Well Pad | - | 0.03 | 0.09 | - | - | 16.56 | 11.91 | 5.05 | 0.02 | 17.78 | 3.20 | 0.15 | 2.89 | - | 0.36 | - | - | - | - | - |
| 27-Sep-10 | 117 | XTO Compressor Station 3595 Angle Rd | Well Pad | - | 0.01 | - | - | - | 0.11 | 0.99 | 0.47 | - | 0.72 | - | - | 0.02 | - | - | - | - | - | - | A |
| 29-Sep-10 | 122 | 7091 Oak Grove | Well Pad | - | 0.03 | - | - | - | 0.04 | 1.66 | 0.36 | - | 0.62 | - | - | - | - | - | 0.04 | 0.11 | 0.31 | - | A,B |
| 30-Sep-10 | 124 | 7695 Oak Grove | Well Pad | - | 0.01 | - | - | - | - | 0.13 | 0.04 | - | 0.06 | - | - | - | - | - | - | - | 0.02 | - | - |
| 30-Sep-10 | 126 | 7997 S Freeway I-35 | Well Pad | - | 0.02 | - | - | - | - | 0.14 | 0.05 | - | 0.10 | - | - | - | - | 0.04 | 0.04 | 0.43 | 10.34 | - | A |
| 04-Oct-10 | 129 | 10091 Old Granbury Rd | Well Pad | - | 0.13 | - | - | - | 33.00 | 60.00 | 25.96 | - | 58.13 | - | 0.39 | 6.15 | - | 0.67 | - | - | - | - | B |
| 04-Oct-10 | 130 | 6597 Oak Grove | Well Pad | - | 0.05 | - | - | - | 0.55 | 46.79 | 5.33 | - | 27.47 | - | 0.29 | 4.10 | - | 4.01 | 8.87 | 15.94 | 151.86 | 1.44 | B |
| 04-Oct-10 | 131 | 6798 Oak Grove | Well Pad | - | 0.01 | - | - | - | 0.03 | 0.31 | 0.10 | - | 0.12 | - | - | - | - | - | - | - | 0.10 | - | A |
| 05-Oct-10 | 132 | 2795 Quail Rd. "Exelon" | Well Pad | - | 0.05 | - | - | - | - | 24.14 | 0.62 | - | 11.34 | - | - | 0.33 | - | 0.06 | - | - | 0.23 | - | A |
| 05-Oct-10 | 133 | 6099 Wilbarger "Olcott South" | Well Pad | - | 0.04 | - | - | - | 0.12 | 4.81 | 0.93 | - | 1.57 | - | - | - | - | - | - | - | - | - | A,B |
| 05-Oct-10 | 135 | 6293 Hatchery Rd | Well Pad | - | 0.05 | - | - | - | 9.54 | 5.44 | 10.23 | - | 9.19 | - | 0.07 | 0.76 | - | - | - | - | - | - | B |
| 06-Oct-10 | 136 | 6497 Shady Oaks Manor Rd | Well Pad | - | 0.04 | - | - | - | 12.41 | 7.39 | 5.92 | 0.02 | 10.82 | - | 0.10 | 1.29 | - | 0.10 | - | - | - | - | B |
| 07-Oct-10 | 140 | 6896 NW LOOP 820 | Well Pad | - | 0.01 | - | - | - | 3.00 | 1.02 | 1.06 | - | 1.46 | - | - | 0.10 | - | - | - | - | - | - | B |
| 13-Oct-10 | 164 | 14091 Stone Road | Well Pad | - | 0.01 | - | - | - | 0.03 | 0.17 | 0.15 | - | 0.08 | - | - | - | - | - | - | - | - | - | - |
| 14-Oct-10 | 170 | 4697 Enon Rd. "Karanges" | Well Pad | 0.01 | 0.04 | - | - | - | 0.22 | 1.39 | 1.13 | - | 0.61 | - | 0.04 | 0.08 | - | 0.03 | - | - | - | - | B |
| 14-Oct-10 | 171 | 3892 Lon Stevenson Rd "Walls Coleman | Well Pad | 0.02 | 0.04 | - | - | - | 0.05 | 0.54 | 0.57 | - | - | - | - | - | - | - | - | 0.09 | 0.11 | A,B | |
| 15-Oct-10 | 173 | 2999 Lana Lane "Hosler" | Well Pad | 0.01 | 0.02 | - | - | - | 0.09 | 0.72 | 0.44 | - | 1.18 | - | - | - | - | - | - | - | - | - | A |
| 18-Oct-10 | 176 | 1375 Oak Grove Shelby Rd | Well Pad | 0.01 | 0.03 | - | - | - | 0.29 | 2.28 | 2.12 | 0.10 | 0.77 | - | - | 0.06 | - | 0.02 | - | - | - | - | A,B |
| 18-Oct-10 | 178 | 10198 Forest Hill Everman Rd | Well Pad | - | 0.02 | - | - | - | 0.15 | 1.30 | 0.94 | - | 0.45 | - | - | 0.05 | - | 0.01 | - | - | - | - | B |
| 18-Oct-10 | 181 | 3298 Van Horn Ave | Well Pad | - | 0.02 | - | - | - | 0.22 | 0.92 | 0.79 | - | 0.69 | - | 0.02 | 0.11 | - | 0.05 | 0.01 | 0.07 | 0.39 | - | B |
| 19-Oct-10 | 184 | 10590 Chapin Road | Well Pad | - | 0.03 | - | - | - | 3.66 | 0.56 | 1.62 | - | 2.08 | - | 0.10 | 1.76 | - | 0.29 | 0.02 | 0.02 | 0.19 | - | B |
| 19-Oct-10 | 185 | 10199 Oak Grove Road | Well Pad | - | 0.02 | - | - | - | 0.02 | 0.25 | 0.14 | - | 0.07 | - | - | - | - | - | - | - | - | - | B |
| 19-Oct-10 | 187 | 9198 Forum Way | Well Pad | 0.01 | 0.03 | - | - | - | 0.05 | 1.00 | 0.38 | - | 0.30 | - | - | - | - | - | - | - | - | - | B |
| 20-Oct-10 | 191 | 3592 Deen Road | Well Pad | 0.01 | 0.02 | - | - | - | 2.32 | 7.71 | 2.98 | - | 5.48 | - | 0.07 | 0.77 | - | 0.12 | - | - | 0.02 | - | A,B |
| 20-Oct-10 | 192 | 2299 Mercado Dr. | Well Pad | 4.39 | 3,571.84 | - | - | 0.39 | 3.61 | 116.05 | 20.94 | - | 107.38 | 0.47 | 2.34 | 20.80 | - | 6.75 | 0.19 | 0.15 | 1.57 | 0.08 | A |
| 21-Oct-10 | 196 | 792 De Costa | Well Pad | - | 0.00 | 0.00 | - | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B |
| 21-Oct-10 | 197 | 692 Beach St. | Well Pad | - | 0.03 | - | 0.11 | 0.02 | 1.12 | 25.44 | 5.70 | - | 21.65 | - | 0.31 | 3.57 | - | 0.65 | 0.02 | 0.01 | 0.09 | - | - |
| 21-Oct-10 | 201 | 5895 Marine Creek Pkwy | Well Pad | - | 0.03 | - | - | - | 2.02 | 4.33 | 3.52 | - | 3.91 | - | 0.06 | 0.74 | - | 0.11 | - | - | 0.03 | - | B |

ABBREVIATIONS

ID = Point Source Identification Number
 IR = Infrared Camera
 TOC = Total Organic Carbon. TOC = NonVOC+VOCs+HAPS
 VOC = Volatile Organic Compound. VOCs = VOCs+HAPS
 HAP = Hazardous Air Pollutant

FLAGS

A Emission concentrations measured by the high flow analyzer at one or more emission points at this site were too low to characterize emissions. Therefore, at these points, TVA measurements were taken in support of estimating emissions.

B A single canister sample was taken at this site and used to characterize both Tank and Non-Tank emissions. Since the chemical profile of Tank emissions can differ from Non-Tank emissions, these results may not be typical and will likely be revised in the final report. The results will likely be revised as "surrogate" canister analysis data (either from a nearby or similar site) becomes available to supplement the site-specific canister data used in this Interim Report.

TABLE 2. SITES WITH NO DETECTED EMISSIONS (PRELIMINARY)

| Date | ID | Address | Type | # Wells | # Tanks | # Compressors | # Valves | # Connectors | # IR Emission Points | # Minor Emission Points |
|-----------|-----|--|----------|---------|---------|---------------|----------|--------------|----------------------|-------------------------|
| 1-Sep-10 | 3 | 16616 Ford Oaks Ln. | Well Pad | 1 | 2 | 0 | 65 | 320 | 0 | 0 |
| 2-Sep-10 | 7 | 1850 Blk HWY 114 at Harriet Circle | Well Pad | 1 | 1 | 0 | 22 | 220 | 0 | 0 |
| 7-Sep-10 | 15 | 12497 Old Denton Rd. | Well Pad | 1 | 0 | 0 | 8 | 48 | 0 | 0 |
| 7-Sep-10 | 16 | 12698 Old Denton Rd. | Well Pad | 1 | 0 | 0 | 9 | 56 | 0 | 0 |
| 9-Sep-10 | 21 | 16280 3 Wild Drive | Well Pad | 3 | 3 | 0 | 172 | 1,204 | 0 | 0 |
| 9-Sep-10 | 26 | 11494 Mosier Valley Rd | Well Pad | 1 | 1 | 0 | 77 | 440 | 0 | 0 |
| 15-Sep-10 | 51 | 694 Avondale Haslet "Sonny Nance" B - Pad | Well Pad | 1 | 0 | 0 | 22 | 154 | 0 | 0 |
| 15-Sep-10 | 54 | 694 Avondale Haslet "Boaz" N - Pad | Well Pad | 3 | 3 | 0 | 196 | 1,332 | 0 | 0 |
| 15-Sep-10 | 55 | 12494 HWY 287 Phase 3 A - Pad | Well Pad | 1 | 1 | 0 | 63 | 441 | 0 | 0 |
| 15-Sep-10 | 56 | 290 Blue Mound Rd. "Garnett-Laprelle" B - Pad | Well Pad | 2 | 2 | 0 | 137 | 822 | 0 | 0 |
| 15-Sep-10 | 58 | 2796 Premier St | Well Pad | 1 | 4 | 0 | 197 | 1,429 | 0 | 0 |
| 14-Sep-10 | 62 | 1400 Avondale Haslet Rd "Morris Harmonson" D - Pad | Well Pad | 1 | 1 | 0 | 63 | 441 | 0 | 0 |
| 16-Sep-10 | 63 | 694 Avondale Haslet Rd (LBJ C - Pad) | Well Pad | 4 | 4 | 0 | NA | NA | 0 | 0 |
| 16-Sep-10 | 64 | 694 Avondale Haslet Rd (LBJ F - Pad) | Well Pad | 2 | 4 | 0 | 120 | 840 | 0 | 0 |
| 17-Sep-10 | 71 | 694 Avondale Haslet Rd (LBJ L - Pad) | Well Pad | 1 | 1 | 0 | 62 | 434 | 0 | 0 |
| 20-Sep-10 | 73 | 693 Avondale Haslet "LBJ" L - Pad | Well Pad | 1 | 1 | 0 | 59 | 416 | 0 | 0 |
| 20-Sep-10 | 76 | 693 Avondale Haslet "LBJ" R - Pad | Well Pad | 1 | 2 | 0 | 85 | 425 | 0 | 0 |
| 20-Sep-10 | 77 | 693 Avondale Haslet "LBJ" S - Pad | Well Pad | 2 | 3 | 0 | 147 | 735 | 0 | 0 |
| 20-Sep-10 | 78 | 1300 Bluff Springs Rd "Boaz B" Pad | Well Pad | 1 | 1 | 0 | 54 | 324 | 0 | 0 |
| 20-Sep-10 | 81 | 1417 Whisper Willows "Boaz D" Pad | Well Pad | 1 | 1 | 0 | 50 | 315 | 0 | 0 |
| 20-Sep-10 | 84 | 7598 Blue Mound Rd | Well Pad | 1 | 2 | 0 | 109 | 763 | 0 | 0 |
| 21-Sep-10 | 95 | 14193 John Day Rd Pad N | Well Pad | 5 | 3 | 0 | 216 | 1,512 | 0 | 0 |
| 22-Sep-10 | 98 | 14193 John Day "Blakley Pad P" | Well Pad | 5 | 3 | 0 | 225 | 1,870 | 0 | 0 |
| 22-Sep-10 | 101 | 14193 John Day "Blakley Pad V" | Well Pad | 5 | 3 | 0 | 131 | 1,870 | 0 | 0 |
| 11-Oct-10 | 153 | 2298 Precinct Line "Duck Lake Pad D" | Well Pad | 2 | 3 | 0 | 151 | 1,057 | 0 | 0 |
| 18-Oct-10 | 177 | 9499 South Race St. | Well Pad | 1 | 1 | 0 | 88 | 616 | 0 | 0 |
| 18-Oct-10 | 179 | 3691 MoPac | Well Pad | 4 | 0 | 0 | 30 | 210 | 0 | 0 |
| 18-Oct-10 | 180 | 695 Northside Dr | Well Pad | 3 | 4 | 0 | 70 | 490 | 0 | 0 |
| 19-Oct-10 | 183 | 3794 Meridian | Well Pad | 6 | 6 | 0 | 414 | 2,898 | 0 | 0 |
| 19-Oct-10 | 186 | 394 Everman Parkway | Well Pad | 4 | 4 | 0 | 207 | 1,449 | 0 | 0 |
| 19-Oct-10 | 189 | 2990 Braswell Drive | Well Pad | 1 | 1 (OOS) | 1 | 83 | 747 | 0 | 0 |

TABLE 3. SITES WITH EMISSIONS NOT YET QUANTIFIED (PRELIMINARY)

| Date | ID | Address | Type | # Wells | # Tanks | # Compressors | # Valves | # Connectors | # IR Emission Points | # Minor Emission Points |
|-----------|-----|---|--|---------|---------|---------------|----------|--------------|----------------------|-------------------------|
| 1-Oct-10 | 128 | 580 East Rosedale | Drilling Operation | 0 | 0 | 0 | NA | NA | 0 | 0 |
| 20-Oct-10 | 193 | 5900 Wilbarger | Fracing Operation | N/A | N/A | N/A | N/A | N/A | 0 | 0 |
| 18-Oct-10 | 175 | 5591 E 1st Street | Saltwater Treatment Facility/Water Recycling Units | | | | | | 0 | 0 |
| 30-Aug-10 | 1 | 16791 Woodside Dr. | Well Pad | 2 | 3 | 0 | 89 | 384 | 0 | 3 |
| 1-Sep-10 | 2 | 2098 Brennan Ave. | Well Pad | 3 | 10 | 1 | 347 | 2,040 | 4 | 8 |
| 1-Sep-10 | 4 | 2033 J Chesheir Rd. | Well Pad | 1 | 1 | 0 | 73 | 286 | 0 | 3 |
| 2-Sep-10 | 5 | Sam Reynolds | Well Pad | 1 | 2 | 0 | 76 | 710 | 1 | 4 |
| 2-Sep-10 | 6 | 1101 HWY 114 | Well Pad | 1 | 1 | 0 | 59 | 590 | 0 | 2 |
| 2-Sep-10 | 8 | 2690 HWY 114 Beech "C" Pad | Well Pad | 3 | 3 | 0 | 214 | 2,140 | 2 | 3 |
| 2-Sep-10 | 9 | 2690 HWY 114 Beech "B" Pad | Well Pad | 2 | 2 | 0 | 198 | 1,386 | 0 | 5 |
| 3-Sep-10 | 10 | 2598 Hwy 114 Beech "A" Pad | Well Pad | 2 | 1 | 0 | 109 | 388 | 4 | 7 |
| 3-Sep-10 | 11 | 15096 American Way (A-Commerce "B" Pad | Well Pad | 2 | 6 | 0 | 128 | 984 | 0 | 4 |
| 8-Sep-10 | 18 | 3897 Litsey Road | Well Pad | 3 | 6 | 1 | 234 | 1,190 | 0 | 4 |
| 8-Sep-10 | 19 | 15695 North Fwy | Well Pad | 5 | 5 | 0 | 98 | 1,888 | 4 | 1 |
| 9-Sep-10 | 20 | 2660 Petty Place | Well Pad | 1 | 2 | 0 | 77 | 548 | 1 | 1 |
| 9-Sep-10 | 23 | 2297 Silver Creek | Well Pad | 1 | 2 | 0 | 53 | 371 | 3 | 1 |
| 9-Sep-10 | 24 | 2297 Silver Creek | Well Pad | 2 | 3 | 0 | 82 | 574 | 2 | 0 |
| 9-Sep-10 | 25 | 3192 Jimisons Lane | Well Pad | 3 | 4 | 0 | 209 | 1,254 | 1 | 2 |
| 9-Sep-10 | 27 | 11468 Mosier Valley Rd | Well Pad | 1 | 1 | 0 | 84 | 500 | 3 | 0 |
| 9-Sep-10 | 28 | 11643 Mosier Valley Rd. | Well Pad | 4 | 4 | 0 | 273 | 1,530 | 2 | 2 |
| 10-Sep-10 | 29 | 14193 John Day Rd Pad G | Well Pad | 4 | 4 | 0 | 209 | 1,449 | 1 | 0 |
| 10-Sep-10 | 30 | 14193 John Day Rd Pad F | Well Pad | 3 | 3 | 0 | 136 | 952 | 1 | 1 |
| 10-Sep-10 | 31 | 14193 John Day Rd Pad D | Well Pad | 1 | 1 | 0 | 48 | 336 | 0 | 1 |
| 10-Sep-10 | 34 | 12196 Trinity Blvd | Well Pad | 5 | 5 | 0 | 214 | 1,284 | 2 | 0 |
| 13-Sep-10 | 37 | 141931 John Day Rd - E Pad | Well Pad | 2 | 2 | 0 | 105 | 735 | 1 | 0 |
| 13-Sep-10 | 38 | 141931 John Day Rd - B Pad | Well Pad | 1 | 1 | 0 | 65 | 455 | 0 | 1 |
| 14-Sep-10 | 39 | 493 Avondale Haslet Rd "Garnett-Laprelle" | Well Pad | 2 | 2 | 0 | 194 | 1,620 | 1 | 1 |
| 14-Sep-10 | 40 | 493 Avondale Haslet Rd "Huffman" | Well Pad | 2 | 3 | 0 | 137 | 1,218 | 2 | 4 |
| 14-Sep-10 | 41 | 1701 Avondale Haslet Rd "Moss" A - Pad | Well Pad | 2 | 1 | 0 | 140 | 840 | 0 | 1 |
| 14-Sep-10 | 42 | 1701 Avondale Haslet Rd "Moss" B - Pad | Well Pad | 2 | 2 | 0 | 150 | 1,244 | 1 | 2 |
| 14-Sep-10 | 43 | 1502 Avondale Haslet Rd "Morris Harmonson" F - | Well Pad | 2 | 2 | 0 | 131 | 917 | 1 | 2 |
| 14-Sep-10 | 44 | 1400 Avondale Haslet Rd "Morris Harmonson" C - | Well Pad | 1 | 2 | 0 | 57 | 342 | 0 | 2 |
| 14-Sep-10 | 45 | 4594 Hwy 360 South Pad | Well Pad | 1 | 3 | 0 | 160 | 1,120 | 0 | 1 |
| 15-Sep-10 | 48 | 13800 Sendera Ranch Blvd "Morris Harmonson" A - | Well Pad | 3 | 3 | 0 | 178 | 1,176 | 0 | 3 |
| 16-Sep-10 | 49 | 694 Avondale Haslet "LBJ" B - Pad | Well Pad | 1 | 1 | 0 | 60 | 420 | 1 | 1 |
| 15-Sep-10 | 50 | 694 Avondale Haslet "Sonny Nance" A - Pad | Well Pad | 2 | 0 | 0 | 68 | 340 | 0 | 3 |
| 15-Sep-10 | 53 | 694 Avondale Haslet "Sonny Nance" C - Pad | Well Pad | 1 | 2 | 0 | 86 | 516 | 1 | 3 |
| 16-Sep-10 | 60 | 694 Avondale Haslet Rd (LBJ D -Pad) | Well Pad | 2 | 4 | 0 | 137 | 959 | 0 | 1 |
| 16-Sep-10 | 65 | 694 Avondale Haslet Rd (LBJ J - Pad) | Well Pad | 2 | 4 | 0 | 126 | 882 | 0 | 1 |
| 17-Sep-10 | 68 | 694 Avondale Haslet Rd (LBJ H - Pad) | Well Pad | 1 | 1 | 0 | 62 | 372 | 0 | 1 |
| 17-Sep-10 | 69 | 694 Avondale Haslet Rd (LBJ I - Pad) | Well Pad | 1 | 1 | 0 | 47 | 329 | 0 | 2 |
| 20-Sep-10 | 80 | 1101 Durango Springs Dr "Boaz A" Pad | Well Pad | 1 | 1 | 0 | 61 | 376 | 0 | 3 |
| 21-Sep-10 | 88 | 10293 Old Weatherford Rd. | Well Pad | 2 | 4 | 0 | 130 | 910 | 4 | 2 |
| 21-Sep-10 | 89 | 14193 John Day Rd Pad H | Well Pad | 2 | 2 | 0 | 105 | 735 | 0 | 2 |
| 21-Sep-10 | 91 | 14193 John Day Rd Pad L | Well Pad | 1 | 1 | 0 | 62 | 372 | 0 | 1 |
| 21-Sep-10 | 92 | 14193 John Day Rd Pad J | Well Pad | 1 | 1 | 0 | 68 | 476 | 0 | 2 |
| 21-Sep-10 | 94 | 14193 John Day Rd Pad M | Well Pad | 2 | 2 | 0 | 122 | 732 | 0 | 1 |
| 21-Sep-10 | 96 | 14193 John Day Rd Pad W | Well Pad | 4 | 4 | 0 | 283 | 1,698 | 0 | 1 |
| 22-Sep-10 | 97 | 14193 John Day "Pool Pad O" | Well Pad | 2 | 2 | 0 | 134 | 1,164 | 0 | 1 |
| 22-Sep-10 | 99 | 14293 Snaffle Bit Tr "Blakley Pad Q" | Well Pad | 4 | 4 | 0 | 258 | 2,020 | 0 | 1 |
| 22-Sep-10 | 100 | 14193 John Day "Blakley Pad U" | Well Pad | 7 | 7 | 0 | 480 | 4,016 | 1 | 2 |
| 22-Sep-10 | 103 | 1299 W Loop 820 | Well Pad | 1 | 2 | 0 | 65 | 455 | 1 | 2 |
| 22-Sep-10 | 104 | 9798 Westpoint Dr. | Well Pad | 2 | 2 | 1 | 203 | 1,550 | 8 | 0 |
| 22-Sep-10 | 105 | 9596 Old Weatherford Rd. | Well Pad | 1 | 2 | 0 | 107 | 721 | 2 | 0 |

TABLE 3. SITES WITH EMISSIONS NOT YET QUANTIFIED (PRELIMINARY)

| Date | ID | Address | Type | # Wells | # Tanks | # Compressors | # Valves | # Connectors | # IR Emission Points | # Minor Emission Points |
|-----------|-----|---|----------|---------------|---------|------------------------|----------|--------------|----------------------|-------------------------|
| 22-Sep-10 | 106 | 10590 Old Weatherford Rd. | Well Pad | 2 | 4 | 0 | 142 | 994 | 2 | 2 |
| 23-Sep-10 | 107 | 5291 Everman Kennedale Burleson Rd | Well Pad | 4 | 4 | 1 | 286 | 2,002 | 3 | 0 |
| 23-Sep-10 | 108 | 7196 Wichita | Well Pad | 2 | 2 | 0 | 105 | 805 | 1 | 0 |
| 23-Sep-10 | 109 | 5691 CA Roberston Blvd | Well Pad | 8 | 10 | 2 | 527 | 3,329 | 1 | 3 |
| 23-Sep-10 | 110 | 2400 Blk Campus St | Well Pad | 1 | 2 | 1 | 68 | 476 | 1 | 2 |
| 23-Sep-10 | 111 | 11495 White Settlement Rd | Well Pad | 3 | 4 | 0 | 224 | 1,568 | 3 | 3 |
| 23-Sep-10 | 112 | 10590 Cleburne Rd | Well Pad | 6 | 8 | 1 | 549 | 4,480 | 8 | 7 |
| 23-Sep-10 | 113 | 10495 W Cleburne Rd | Well Pad | 3 | 3 | 2 | 236 | 2,744 | 7 | 5 |
| 24-Sep-10 | 114 | 6599 Oak Grove | Well Pad | 3 | 3 | 2 | 316 | 2,212 | 10 | 7 |
| 24-Sep-10 | 115 | 10296 Old Cleburne Crowley Rd | Well Pad | 1 | 2 | 1 | 146 | 1,399 | 7 | 5 |
| 24-Sep-10 | 116 | 10699 Old Granbury Rd | Well Pad | 6 | 8 | 1 | 632 | 5,022 | 12 | 9 |
| 6-Oct-10 | 137 | 6791 NW Loop 820 | Well Pad | 3 | 3 | 0 | 161 | 1,127 | 6 | 1 |
| 6-Oct-10 | 138 | 4993 Freeman Dr "Kates" | Well Pad | 1 | 1 | 0 | 84 | 588 | 1 | 2 |
| 6-Oct-10 | 139 | 7797 E Lancaster Ave "Green Oaks" | Well Pad | 6 | 6 | 2 | 603 | 4,219 | 6 | 6 |
| 7-Oct-10 | 141 | 2693 Roberts Cut-Off Rd | Well Pad | 2 | 2 | 0 | 123 | 861 | 2 | 1 |
| 7-Oct-10 | 142 | 3291 NW LOOP 820 | Well Pad | 2 | 2 | 1 | 158 | 1,706 | 11 | 0 |
| 7-Oct-10 | 143 | 3091 NW LOOP 820 | Well Pad | 3 | 3 | 0 | 116 | 813 | 0 | 3 |
| 7-Oct-10 | 144 | 2399 Dottie Lynn "Sowell North" | Well Pad | 4 | 4 | 2 | 419 | 2,933 | 5 | 9 |
| 7-Oct-10 | 145 | 6093 Wilbarger "Clcott North" | Well Pad | 12 | 0 | 0 | 366 | 2,562 | 2 | 7 |
| 7-Oct-10 | 146 | 5693 E Loop 820 S "Duke" | Well Pad | 2 | 2 | 0 | 199 | 1,393 | 2 | 4 |
| 8-Oct-10 | 147 | 5195 E Loop 820 S "820 Martin" | Well Pad | 8 | 4 | 1 | 536 | 3,752 | 8 | 9 |
| 8-Oct-10 | 148 | 3093 NW LOOP 820 | Well Pad | 2 | 2 | 1 | 205 | 1,860 | 13 | 2 |
| 11-Oct-10 | 149 | 7500 Randol Mill Rd "Blakeman" | Well Pad | 1 | 1 | 1 | 129 | 903 | 2 | 0 |
| 11-Oct-10 | 150 | 7891 Randol Mill Rd "Morris" | Well Pad | 1 | 1 | 1 | 121 | 847 | 0 | 1 |
| 11-Oct-10 | 151 | 8096 Randol Mill Rd "Dorex" | Well Pad | 1 | 2 | 1 | 121 | 847 | 2 | 0 |
| 11-Oct-10 | 152 | 8390 Randol Mill Rd "Buzzy's" | Well Pad | 2 | 2 | 1 | 143 | 1,001 | 4 | 1 |
| 11-Oct-10 | 154 | 8091 Brentwood Stair Rd "Claneco" | Well Pad | 1 | 2 | 0 | 154 | 1,078 | 1 | 1 |
| 11-Oct-10 | 155 | 2095 NW LOOP 820 | Well Pad | 4 | 4 | 0 | 234 | 1,638 | 2 | 3 |
| 11-Oct-10 | 156 | 3491 Lincoln Ave - A Pad | Well Pad | 2 | 2 | 0 | 107 | 749 | 3 | 1 |
| 11-Oct-10 | 157 | 3598 Angle Ave | Well Pad | 2 | 1 | 0 | 108 | 756 | 2 | 2 |
| 11-Oct-10 | 158 | 4592 Angle Ave - LS Pad | Well Pad | 4 | 2 | 0 | 198 | 1,386 | 6 | 2 |
| 12-Oct-10 | 160 | 7595 E. Lancaster Ave. | Well Pad | 7 | 0 | 0 | 429 | 3,007 | 6 | 4 |
| 12-Oct-10 | 161 | 7397 Randol Mill Road | Well Pad | 3 | 0 | 1 | 256 | 2,176 | 4 | 4 |
| 12-Oct-10 | 162 | 1999 Precinct Road | Well Pad | 2 | 6 | 1 | 226 | 1,869 | 2 | 1 |
| 13-Oct-10 | 163 | 490 E Rendon Crowley Rd | Well Pad | 3 | 4 | 0 | 212 | 1,484 | 1 | 1 |
| 13-Oct-10 | 165 | 7996 Trammel Davis Road Duck Lake Pad A | Well Pad | 3 | 2 | 1 | 356 | 2,492 | 4 | 1 |
| 13-Oct-10 | 166 | 9799 Trammel Davis Road TXI A | Well Pad | 1 | 2 | 1 | 140 | 973 | 3 | 0 |
| 13-Oct-10 | 167 | 3198 South Norwood Drive "TXI | Well Pad | 1 | 2 | 1 | 144 | 1,008 | 5 | 1 |
| 13-Oct-10 | 168 | 992 Trinity Blvd. "Bell Pad B" | Well Pad | 3 | 6 | 1 - Line | 264 | 1,848 | 3 | 2 |
| 13-Oct-10 | 169 | 1090 Trinity Blve. "Bell Pad A" | Well Pad | 3 | 4 | 1 | 264 | 1,848 | 2 | 1 |
| 15-Oct-10 | 172 | 8290 Anglin Cr "Moore" | Well Pad | 3 | 3 | 0 | 161 | 1,127 | 0 | 3 |
| 18-Oct-10 | 174 | 5591 E 1st Street | Well Pad | 2 gas wells 1 | 8 | 1 gas lift/not running | 211 | 1,477 | 0 | 3 |
| 19-Oct-10 | 182 | 691 Beach St | Well Pad | 3 | 4 | 0 | 115 | 705 | 2 | 2 |
| 19-Oct-10 | 188 | 1298 W. Risinger Road | Well Pad | 2 | 2 | 0 | 117 | 819 | 2 | 1 |
| 20-Oct-10 | 190 | 796 Meacham Blvd | Well Pad | 3 | 3 | 0 | 146 | 1,022 | 1 | 0 |
| 20-Oct-10 | 194 | 10395 Camp Bowie | Well Pad | 1 | 2 | 0 | 93 | 652 | 4 | 0 |
| 20-Oct-10 | 195 | 3497 Longvue | Well Pad | 2 | 4 | 0 | 134 | 938 | 9 | 2 |
| 21-Oct-10 | 198 | 5699 Randol Mill Road | Well Pad | 3 | 4 | 1 | 260 | 1,824 | 2 | 3 |
| 21-Oct-10 | 199 | 7094 Jack Newell Blvd. S. | Well Pad | 2 | 4 | 0 | 118 | 826 | 2 | 2 |
| 21-Oct-10 | 200 | 7092 Enterprise Ave. | Well Pad | 2 | 0 | 0 | 41 | 294 | 1 | 1 |