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CONFIDENTIAL

FINAL REPORT

JULY 31, 2013

SMITH-YORLUM #7H PRODUCTION FACILITY  
4554 JIM CRISTAL ROAD  
DENTON, DENTON COUNTY, TEXAS

**PREPARED FOR:**

MR. ERIC DELAUGHTER  
EAGLERIDGE OPERATING, LLC  
3500 OAK LAWN AVENUE, SUITE 300  
DALLAS, TEXAS 75219

**PREPARED BY:**



Environmental & Safety Solutions  
109 S. OAKLAND STREET  
DENTON, TEXAS 76201  
(940) 387-0805 PHONE  
(940) 387-0830 FAX

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109 S. Oakland Street  
Denton, Texas 76201  
Phone 940-387-0805  
Fax 940-387-0830

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July 31, 2013

Mr. Eric DeLaughter  
EagleRidge Operating, LLC  
3500 Oak Lawn Avenue, Suite 300  
Dallas, Texas 75219

**Re: Final Report**

**Site: Smith-Yorum #7H Production Facility – 4554 Jim Christal Road, Denton,  
Denton County, Texas 76207**

Dear Mr. DeLaughter:

KJE has completed the attached report for the above-referenced site, located in Denton, Texas. The purpose of the attached report is to describe the release investigation, release delineation, remediation and clearance sampling performed by KJE under the guidance of the Railroad Commission of Texas (RRC) following the on-site release event of April 19, 2013 that was caused by the production tubing string failure of the on-site well during the redevelopment of the well.

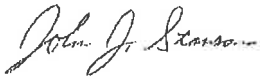
On April 29, 2013 KJE collected eight (8) soil samples from the site. The samples were analyzed for Total Petroleum Hydrocarbons (TPH); Benzene, Toluene, Ethylbenzene, and Xylene (BTEX); and Chloride. Laboratory analytical results indicated that BTEX and TPH were below laboratory detection limits in all samples; therefore, the concern related to BTEX and TPH was alleviated, and these constituents were not analyzed in subsequent sampling events. Laboratory analytical results indicated that one (1) soil sample (SB-4) was reported to have a Chloride content of 3,780 mg/kg; which is above the RRC's action limit of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*.

On May 20, 2013 KJE collected nine (9) soil samples from the area encompassing soil sample SB-4, and analyzed the samples for Chloride in order to delineate the horizontal extents of Chloride contamination in soils at the site. Laboratory analytical results of the soil samples collected on May 20, 2013 indicated that no samples exceeded the RRC's action limit of 3,000 mg/kg.

On June 19, 2013, KJE provided oversight for the excavation of soil surrounding the location where soil sample SB-4 was collected. Additionally, KJE collected five (5) soil samples from the floor and walls of the excavated pit, to ensure that all chloride-contaminated soil had been sufficiently excavated from the area surrounding the location of soil sample SB-4. Laboratory analytical results of the soil samples indicated that no samples exceeded the RRC's action limit of 3,000 mg/kg. Based on the clearance sample results, the Chloride-affected soil has been adequately remediated, and KJE recommends no further action at this time.

If we can be of further assistance, please do not hesitate to contact us at 940-387-0805. Thank you for the opportunity to provide professional environmental consulting services. It has been a pleasure working with you.

Best Regards,



John J. Stanson  
Environmental Scientist



Dena M. Vandenberg, LEED AP  
Environmental Professional



Kevin J. Ware, QEP, RPES (OK), EIT

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## **1.0 Introduction**

On April 19, 2013, a release occurred at the Smith-Yorlum #7H production facility (site), located at 4554 Jim Christal Road, in Denton, Denton County, Texas. The release event was caused by the production tubing string failure of the on-site well during the redevelopment of the well. On April 29, 2013, under the guidance of the RRC, KJE completed a Release Investigation, which included the advancement of eight (8) on-site soil borings. Soil samples were collected from each of the eight (8) soil boring locations and analyzed for Total Petroleum Hydrocarbons (TPH); Benzene, Toluene, Ethylbenzene, and Xylene (BTEX); and Chloride. Elevated Chloride content was discovered in one (1) soil sample (SB-4) during the on-site Release Investigation. According to laboratory analytical results, the Chloride content of soil sample SB-4 was reported to be 3,780 mg/kg; above the RRC action limit for Chloride in soil of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*. On May 20, 2013, KJE completed a Release Delineation, which included the advancement of nine (9) on-site soil borings in the vicinity of soil sample SB-4. Soil samples were collected from each of the nine (9) soil boring locations and analyzed for Chloride in order to delineate the horizontal extents of Chloride contamination in soils at the site. Laboratory analytical results of the soil samples collected on May 20, 2013 indicated that no samples exceeded the RRC's action limit for Chloride in soil. On June 19, 2013, KJE provided oversight for the excavation of soil surrounding the location where the previously-mentioned soil sample SB-4 was collected, and completed clearance sampling at the request of the Railroad Commission of Texas, to ensure that all chloride-contaminated soil had been sufficiently excavated. KJE collected five (5) clearance soil samples from the floor and walls of the excavated pit. Laboratory analytical results of the soil samples collected from the floor and walls of the excavated pit indicated that no samples exceeded the RRC's action limit for Chloride in soil of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*.

## **2.0 Subsurface Investigation / Excavation and Sampling Activities**

On April 29, 2013 under the supervision of Railroad Commission (RRC) Engineering Specialist, Jarrod Eberly; eight (8) soil borings were completed by hand-auger to a depth of approximately six (6) inches to evaluate the horizontal extents of shallow soil contamination at the site. Six (6) of the soil borings (SB-3, SB-4, SB-5, SB-6, SB-7, SB-8) were located within the boundaries of the visually-contaminated soil, and two (2) of the soil borings (SB-1 & SB-2) were located in un-impacted areas of the site, in order to obtain background concentrations. Under the guidance of the RRC, KJE had soil samples from each of the eight (8) soil borings analyzed for Total Petroleum Hydrocarbons (TPH); Benzene, Toluene, Ethylbenzene, and Xylene (BTEX); and Chlorides. Laboratory analytical results indicated that, while a number of samples exceeded background levels for Chlorides, one sample (SB-4) was above the RRC's action limit for Chloride in soil of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*. Laboratory analytical results indicated that BTEX and TPH were below laboratory detection limits in all samples; therefore, the concern related to BTEX and TPH was alleviated, and these constituents were not analyzed in subsequent sampling events.

On May 20, 2013, with guidance from the RRC, KJE completed nine (9) soil borings in three (3) alternating triangular patterns encompassing the location of the above-mentioned soil sample SB-4 in order to delineate the horizontal extents of Chloride contamination in soils at the site. The soil boring locations were placed at 20-feet, 40-feet, and 60-feet from the location where soil sample SB-4 was collected. A hand-auger was used to drill the soil borings to a depth of approximately one (1) foot below ground surface (bgs). Soil samples DB-01, DB-02, DB-03, DB-04, DB-05, DB-06, DB-07, DB-08, and DB-09 were collected from the above-mentioned soil borings and analyzed for Chlorides by USEPA Test Method 325.3. Laboratory analytical results of soil samples DB-01 through DB-09 indicated that no samples exceeded the RRC's action limit for Chloride in soil of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*.

On June 19, 2013, KJE provided oversight for the excavation of soil surrounding the location where the previously-mentioned soil sample SB-4 was collected. As agreed upon with the RRC, soil within a 20-foot diameter circle around the location of soil sample SB-4 was excavated by ERO's contractor to a depth of one (1) foot below ground surface (bgs). Following the excavation of soil surrounding soil sample SB-4, KJE collected five (5) clearance soil samples [SB-4(1), SB-4(2), SB-4(3), SB-4(4), and SB-4(5)]. Clearance soil sample SB-4(1) was collected from the floor of the excavated pit. Clearance soil samples SB-4(2), SB-4(3), SB-4(4), and SB-4(5) were collected from the north, east, south, and west walls of the excavated pit, respectively. Following the sample collection activities, MasterVac removed the excavated soil stockpiles from the site via vacuum truck. A total of 81 barrels of excavated soil was transported off-site by Chico Autopark & Services and disposed of at the Polk Operating, LLC Polk R<sup>3</sup> Facility, located at P.O. Box 1271 in Bowie, Texas (See Appendix E for copy of disposal ticket).

### **3.0 Soil Sample Collection/Handling Procedures**

Soil sampling procedures/activities included the collection of soil cores utilizing a hand-auger, and grab soil samples utilizing a clean, decontaminated soil trowel. A clean, decontaminated sampling knife was used to collect composite soil samples from each core. Each soil sample was handled with nitrile-gloved hands. The samples were placed in clean, dedicated, laboratory-supplied, 4-ounce glass containers, labeled with pertinent sampling information. The samples were then placed in a cooling chest with adequate ice, providing a 4 °C environment for sufficient preservation until delivery to TTI Environmental Laboratories (a third-party, independent, and licensed environmental laboratory in Arlington, Texas). The sample collection and handling activities were conducted in accordance with USEPA Standard Operating Procedures and strict chain-of-custody protocols (See Appendix C, for copies of the analytical reports and chain-of-custody documentation). All sampling equipment was decontaminated before and between each sampling location. All personnel used dedicated nitrile gloves that were changed between each sample collection.

The soil samples collected on April 29, 2013 were analyzed for Total Petroleum Hydrocarbons (TPH) by Texas Commission on Environmental Quality (TCEQ) Test Method TX1005; Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by US Environmental Protection Agency (USEPA) Test Method 8260; and Chlorides by USEPA Test Method 325.3. The soil samples collected on May 20, 2013 and June 19, 2013 were analyzed for Chlorides by USEPA Test Method 325.3. These analytical methods are the EPA, TCEQ, Railroad Commission of Texas (RRC), and industry-

approved standards used to determine potential soil contamination associated with this type of release.

#### **4.0 Summary of Analytical Results**

For the soil samples collected on April 29, 2013, the laboratory analytical results of the background soil samples (SB-1 and SB-2), showed levels of Chloride at 1,390 and 596 mg/kg, respectively. Laboratory analytical results of the soil samples from the release-affected areas indicated that one (1) soil sample (SB-4) exceeded the RRC's action limit for Chloride in soil of 3,000 mg/kg, with a concentration of 3,780 mg/kg. This sample was collected from the pad site.

For the soil samples collected on May 20, 2013, the laboratory analytical results of the soil samples from the release-affected area indicated that no samples exceeded the RRC's action limit for Chloride in soil.

For the soil samples collected on June 19, 2013, the laboratory analytical results of soil samples SB-4(1), SB-4(2), SB-4(3), SB-4(4), and SB-4(5), collected from below and surrounding the location of soil sample SB-4, indicated that no samples exceeded the RRC's action limit for Chloride in soil.

#### **5.0 Photographs**

Photo documentation of the on-site soil boring locations is included with this Report (See Photo Exhibits).

#### **6.0 Conclusions/Recommendations**

KJE has completed a release investigation, delineation, remediation and clearance sampling to evaluate the soil impact of the release dated April 19, 2013 for the site located at 4554 Jim Christal Road, in Denton, Denton County, Texas. Based on the laboratory analytical results associated with the clearance sampling, no samples exceeded the RRC's action limit for Chloride in soil of 3,000 mg/kg, established in the draft document titled *Field Guide for the Assessment and Cleanup of Produced Water Releases*; therefore, the Chloride-affected soil associated with the April 19, 2013 release has been adequately remediated.

#### **7.0 Qualifications of Environmental Professional**

This is to certify that the Remediation and Clearance Sampling completed at the Smith-Yorum #7H facility, located at 4554 Jim Christal Road, in Denton, Denton County, Texas; was performed following EPA, TCEQ, RRC, and industry-approved standards/protocols. This work was conducted on June 19, 2013, for EagleRidge Operating, LLC; and all field activities were completed under the supervision of Ms. Dena M. Vandenberg, LEED AP. Ms. Vandenberg's credentials are included in Appendix D.

**8.0 Signature of Environmental Professional**



07-31-13

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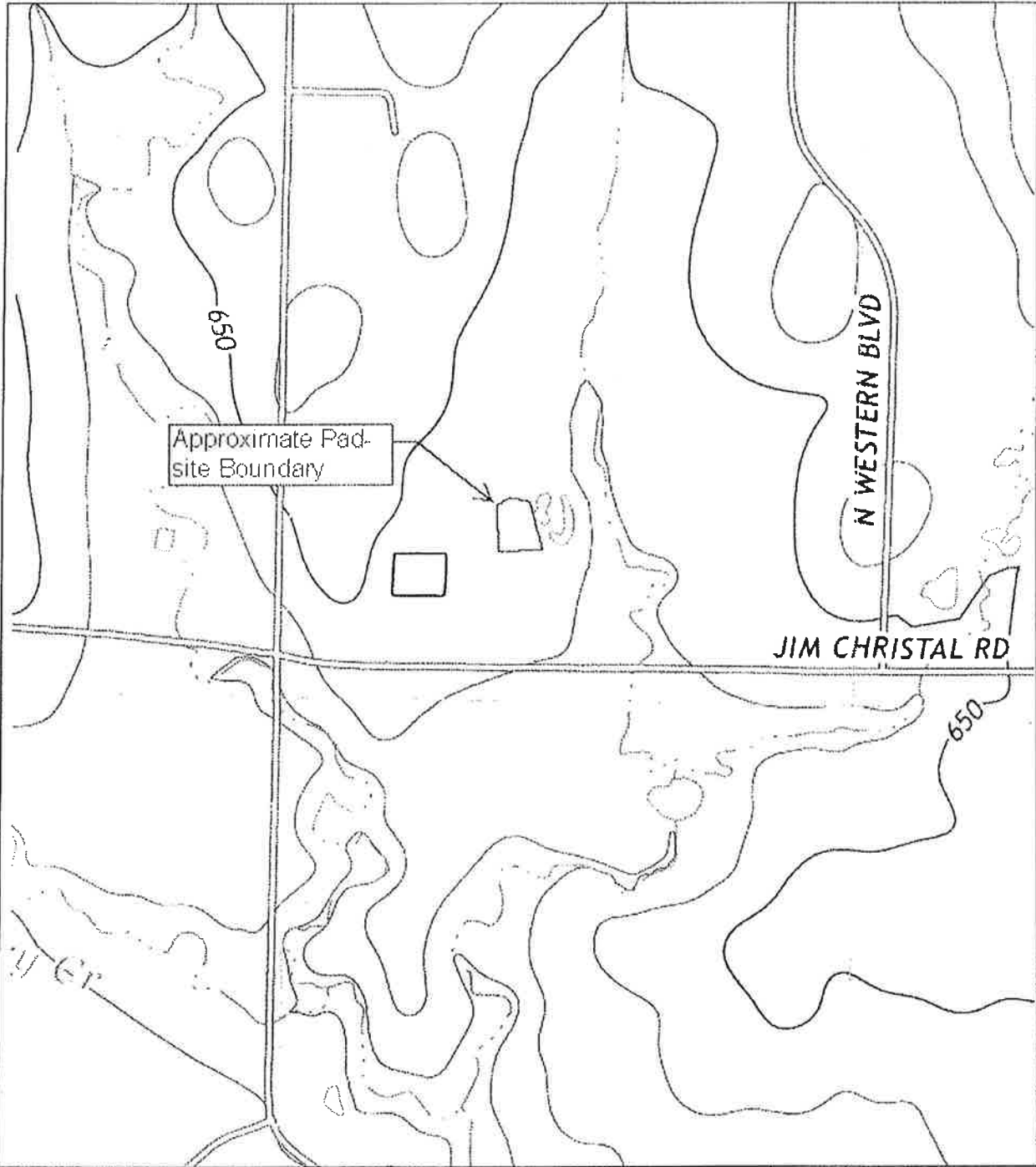
Dena M. Vandenberg, LEED AP  
Environmental Professional

Date



**APPENDIX A**

**Site Maps**



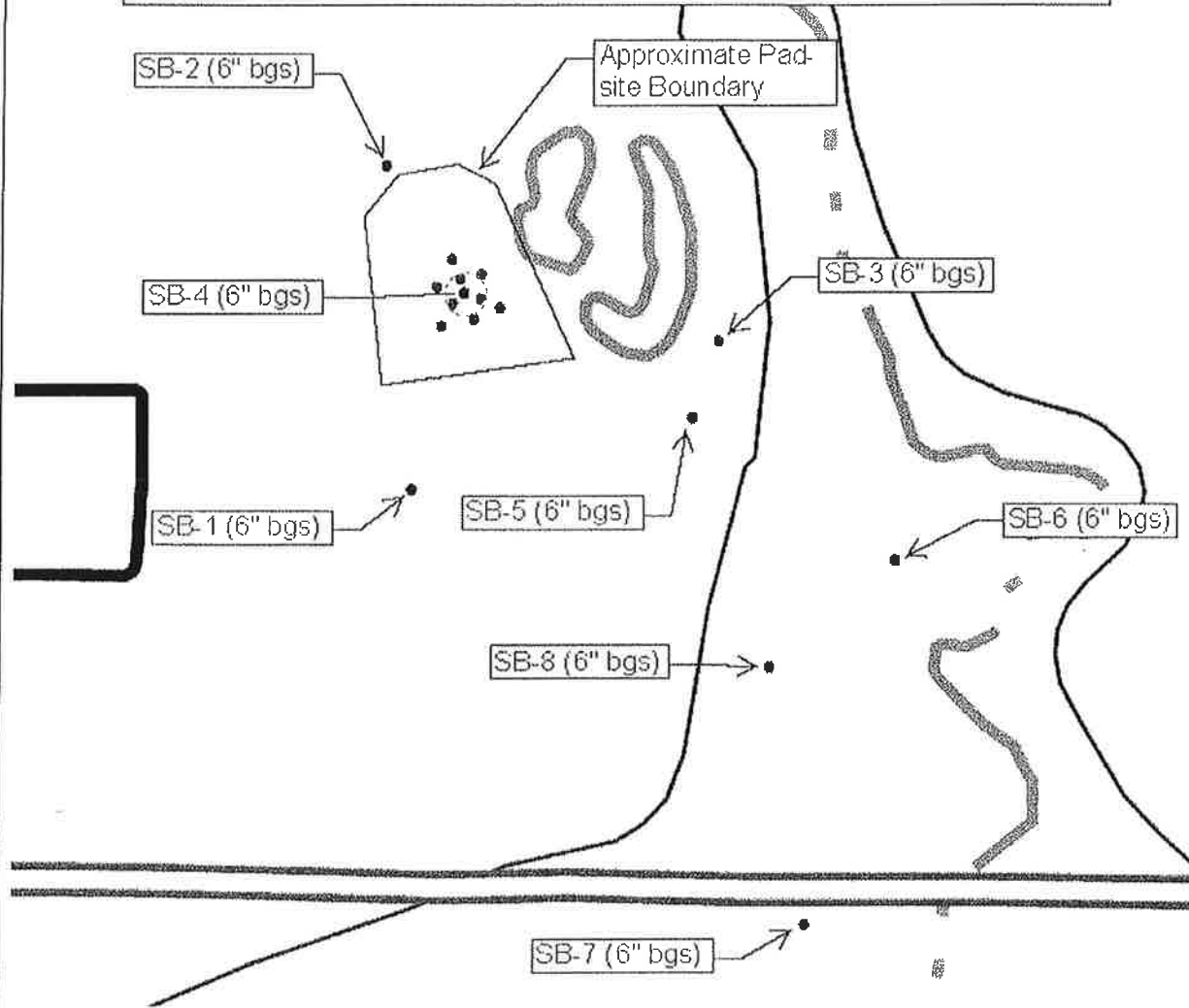
Source:  
USGS Topographic  
Map, Denton West,  
Texas, 2013

Site Topographic Map  
Smith-Yorlum #7H Production Facility  
4554 Jim Christal Road, Denton, Denton  
County, Texas 76207



### Legend

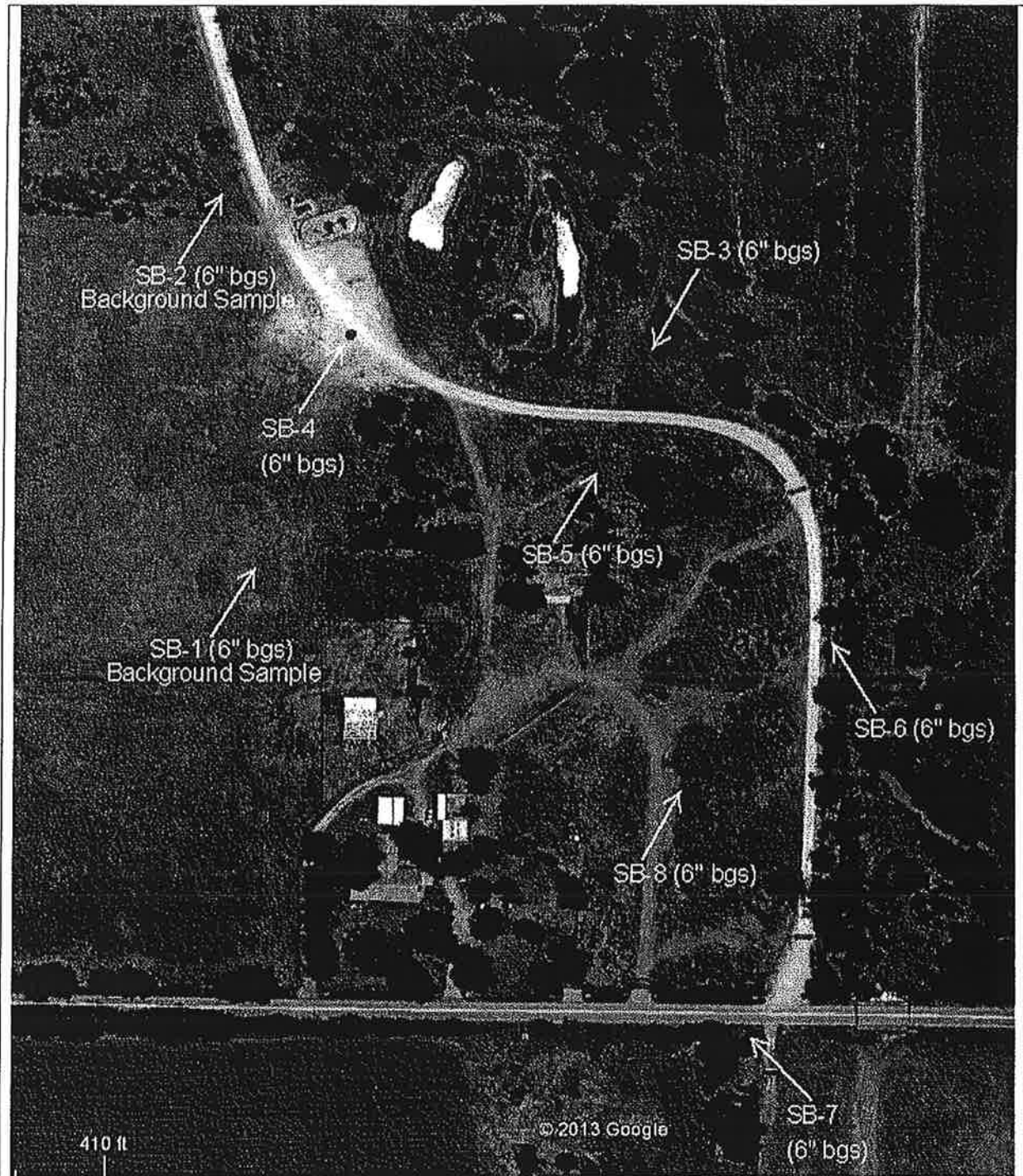
- Release Investigation Sample Locations (For more detail, see Release Investigation Sample Location Map)
- Release Delineation Sample Locations (For more detail, see Release Delineation Sample Location Map)
- Remediation & Clearance Sample boundary (For more detail, see Remediation & Clearance Sample Location Map)



Source:  
USGS Topographic  
Map, Denton West,  
Texas, 2013

Site Topographic Map with Sample  
Locations  
Smith-Yorlum #7H Production Facility  
4554 Jim Christal Road, Denton, Denton  
County, Texas 76207

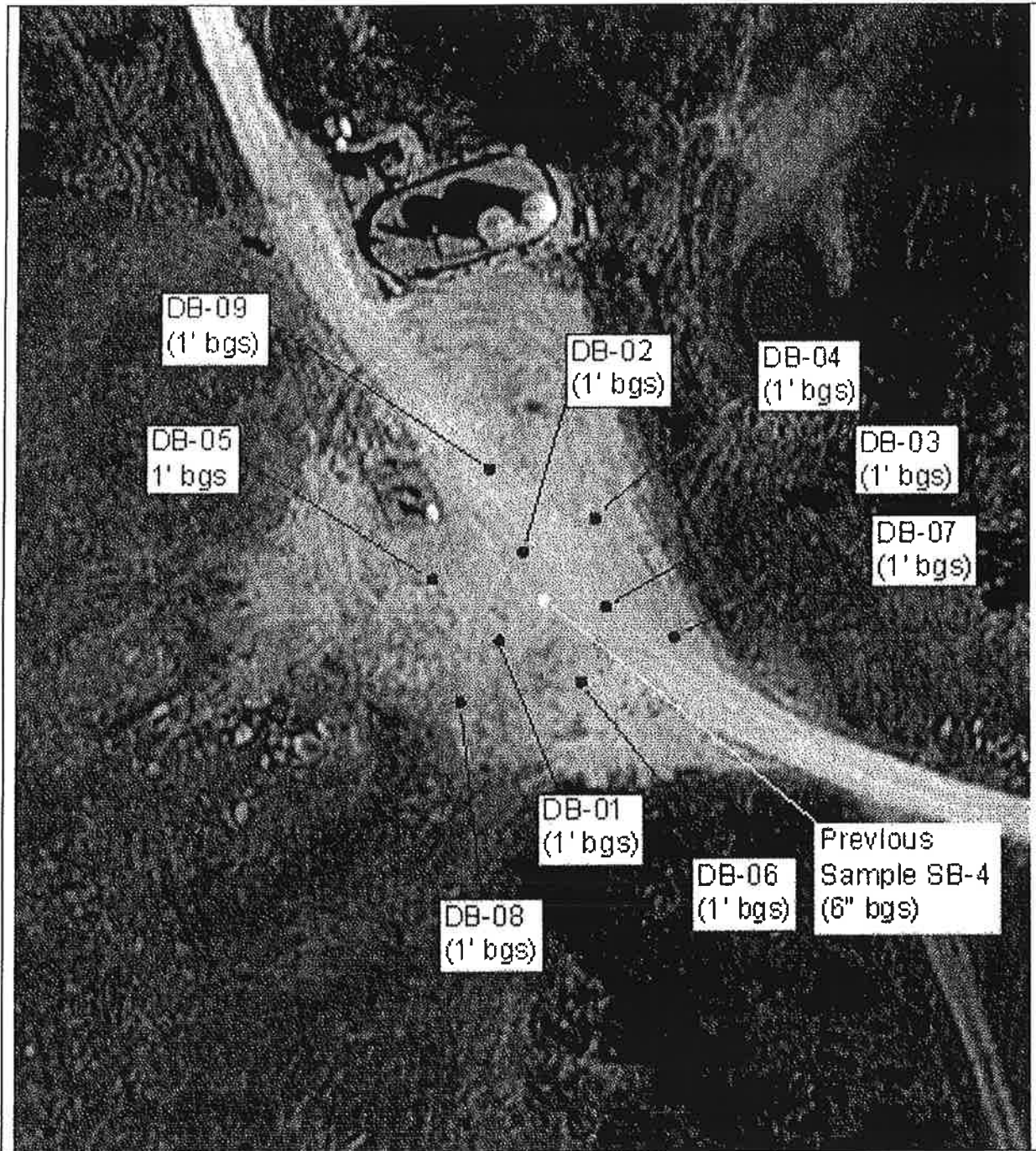




Source:  
Googlemaps.com  
(NTS)

Release Investigation Sample Locations  
Locations of samples collected on  
April 29, 2013  
Smith-Yorum #7H Production Facility  
4554 Jim Christal Road, Denton, Denton  
County, Texas 76207



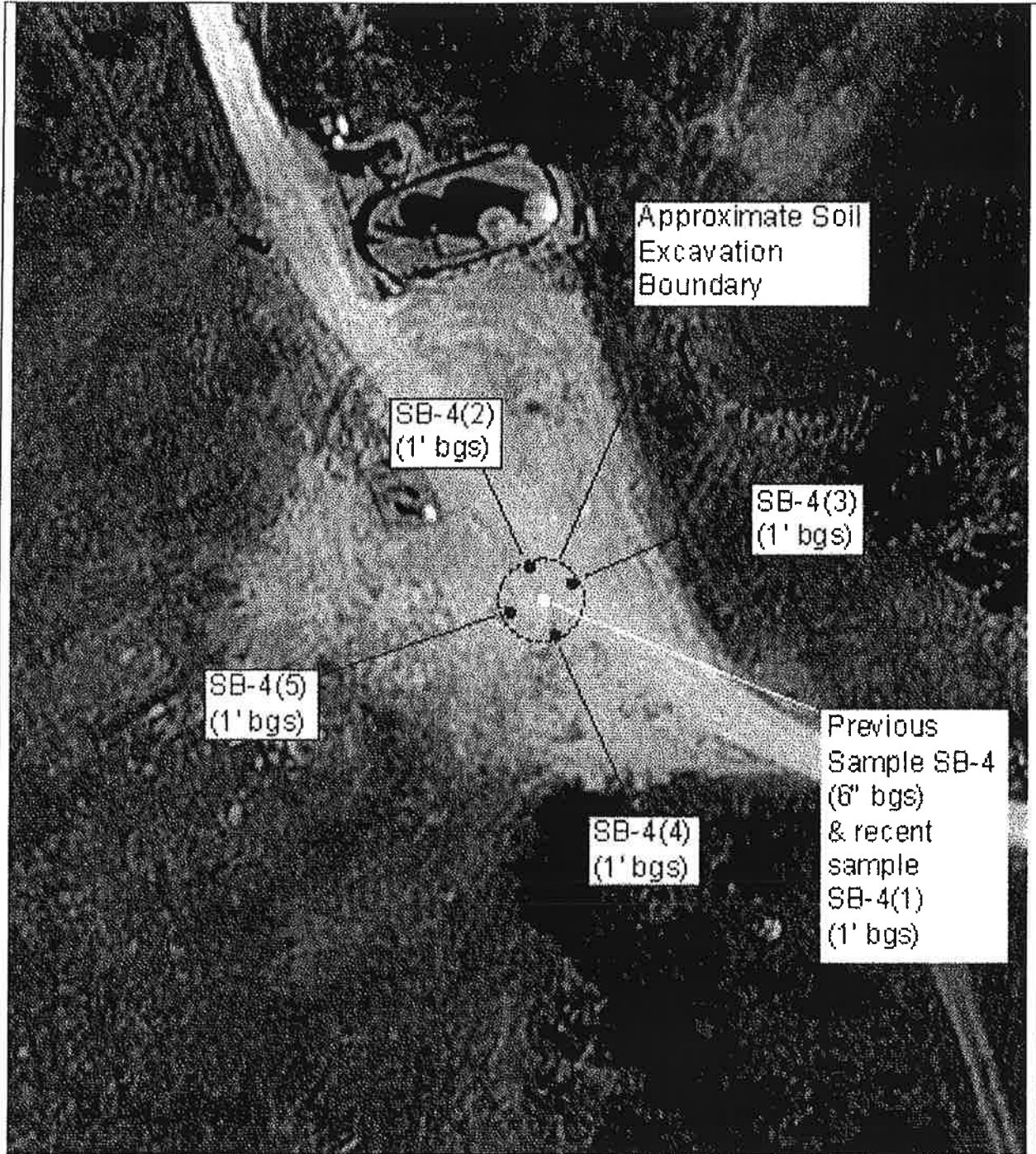


Source: DFWmaps.com  
(NTS)

Release Delineation Sample Locations  
 Locations of samples collected on  
 May 20, 2013  
 Smith-Yorum #7H Production Facility  
 4554 Jim Christal Road, Denton, Denton  
 County, Texas 76207







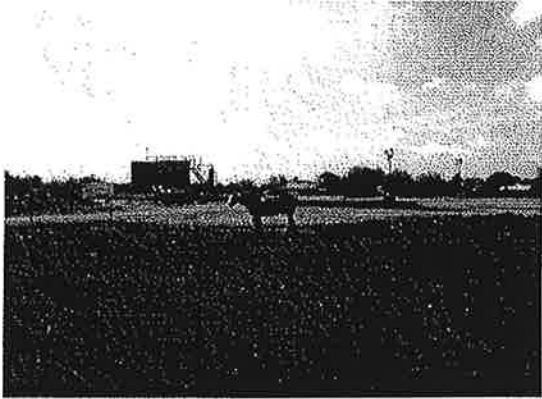
Source:  
DFWmaps.com  
(NTS)

Remediation & Clearance Sample Locations  
Locations of samples collected on June 19, 2013  
Smith-Yorum #7H Production Facility  
4554 Jim Christal Road, Denton, Denton  
County, Texas 76207



**APPENDIX B**

**Photographs**



**Photo #1** View of the on-site gas production facility.



**Photo #2** Location of SB-3.



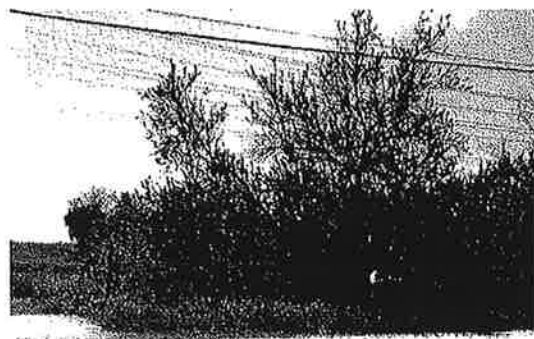
**Photo #3** Location of SB-4.



**Photo #4** Location of SB-5.



**Photo #5** Location of SB-6.



**Photo #6** Location of SB-7.



Release Investigation -- Smith-Yorum #7H Production Facility  
4554 Jim Christal Road, in Denton, Denton County, Texas  
Photos Taken April 29, 2013

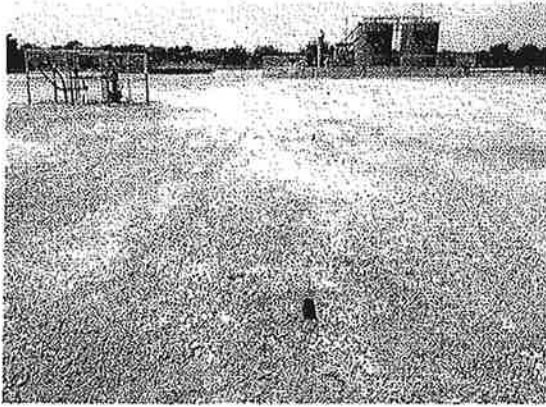
KJE



**Photo #7** Location of SB-8.



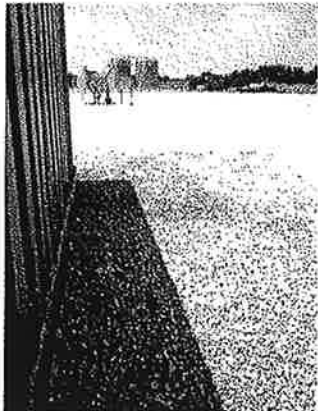
**Photo #8** View of the entrance to Smith-Yorum #7H Production Facility.



**Photo #1** View of SB-4, DB-02, and DB-09 from bottom to top, respectively.



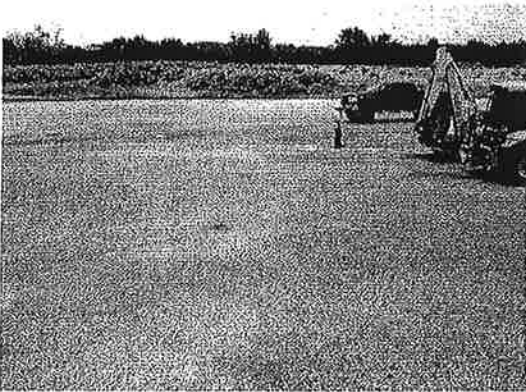
**Photo #2** View of the sample area, facing northwest.



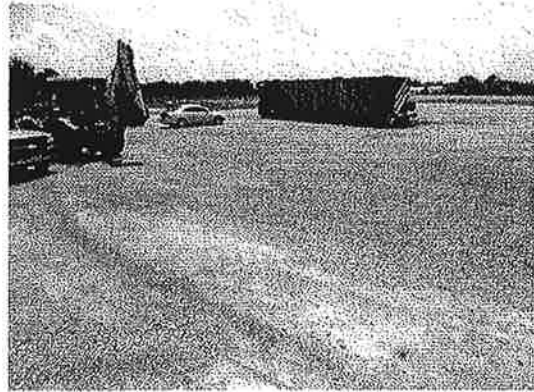
**Photo #3** View of DB-08 (bottom), facing north.



**Photo #4** View of DB-01 (bottom right), SB-4 (top right), DB-02 (top center) and DB-09 (Top left).



**Photo #1** View of the marked 20-foot diameter area surrounding SB-4, facing east.



**Photo #2** View of the marked 20-foot diameter area surrounding SB-4, facing southwest.



**Photo #3** View of the marked 20-foot diameter area surrounding SB-4, facing north.



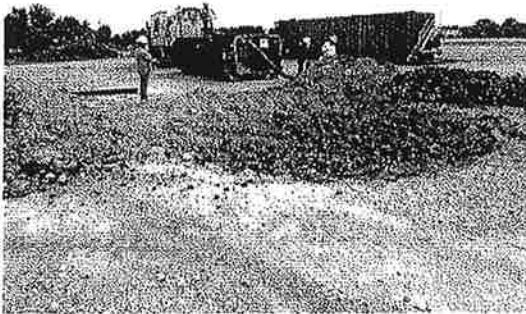
**Photo #4** View of the pit excavation.



**Photo #5** View of the pit excavation.



**Photo #6** View of the soil sample locations inside the pit (marked with blue flags).



**Photo #7** View of the vacuum truck and associated storage container.



**Photo #8** View of the vacuum truck and associated storage container.



**Photo #9** View of the excavated soil being loaded into the vacuum truck and associated storage container.

**APPENDIX C**  
**Analytical Results**

**Release Investigation Summary of Analytical Results**

<b>Soil Boring ID<sup>2</sup></b>	<b>Contaminants</b>	<b>Analytical Result (mg/kg)</b>	<b>RRC Action Limit (mg/kg)</b>
SB-1 <sup>1</sup>	Chloride	1,390	3,000
SB-2 <sup>1</sup>	Chloride	596	
SB-3	Chloride	992	
SB-4	Chloride	3,780	
SB-5	Chloride	2,580	
SB-6	Chloride	1,390	
SB-7	Chloride	997	
SB-8	Chloride	1,390	

<sup>1</sup>Background samples

<sup>2</sup>BTEX and TPH were below laboratory detection limits in all samples

**Release Delineation Summary of Analytical Results**

<b>Soil Boring ID</b>	<b>Contaminants</b>	<b>Analytical Result (mg/kg)</b>	<b>RRC Action Limit (mg/kg)</b>
DB-01	Chloride	2,050	3,000
DB-02	Chloride	928	
DB-03	Chloride	1,830	
DB-04	Chloride	2,390	
DB-05	Chloride	732	
DB-06	Chloride	2,170	
DB-07	Chloride	1,940	
DB-08	Chloride	634	
DB-09	Chloride	490	

**Remediation & Clearance Sampling Summary of Analytical Results**

<b>Soil Boring ID</b>	<b>Contaminants</b>	<b>Analytical Result (mg/kg)</b>	<b>RRC Action Limit (mg/kg)</b>
SB-4 (1)	Chloride	1,320	3,000
SB-4 (2)	Chloride	1,210	
SB-4 (3)	Chloride	1,170	
SB-4 (4)	Chloride	573	
SB-4 (5)	Chloride	1,610	



**APPENDIX D**

**Environmental Professional's Credentials**

# **Dena Marie Vandenberg, LEED AP**

## **ENVIRONMENTAL PROFESSIONAL**

### **WORK HISTORY**

#### **Chief Operating Officer**

##### **KJ Environmental Management, Inc.**

June 2011 -- Present (1 year 6 months)

I am currently working as the Chief Operating Officer at KJ Environmental in Denton, Texas. I have 9 years of experience as an environmental professional in consulting. I lead a team of Engineers and Scientists to complete projects for a variety of industries, while ensuring the delivery of the highest quality work product, customer service, and professionalism.

#### **Project Manager**

##### **KJ Environmental Management, Inc.**

April 2010 -- June 2011 (1 year 3 months)

When I began working at KJ Environmental in Denton, Texas as a Project Manager, I provided regulatory compliance services for various industries including oil and gas storage and trucking facilities, sand and cement handling facilities, manufacturing facilities, and municipal agencies. My areas of expertise included project management, construction and industrial storm water pollution prevention plans (SWPPP), NPDES/TPDES permit applications, oil pollution prevention compliance (SPCC), Permit-By-Rule (PBR) Applications, New Source Review (NSR) Applications, Barnett Shale Phase I & Phase II Special Emissions Inventories, Saltwater Disposal Well Permitting, Underground Injection Control Permitting, TCEQ Public Water System compliance, drinking water, storm water, ground water, and waste sampling, asbestos sampling, mold assessments, radon testing, lead-based paint sampling, lead in drinking water sampling, Phase I Environmental Site Assessments, Limited Environmental Investigations, noise monitoring, and brownfield redevelopment.

#### **Environmental Scientist**

##### **Terracon**

Privately Held; 1001-5000 employees; Civil Engineering industry

April 2006 -- February 2010 (3 years 11 months)

At Terracon, I conducted hundreds of Phase I ESAs for various types of properties from vacant land to industrial/manufacturing facilities and gas stations. I also did regulatory compliance consulting for oil & gas clients, industrial/manufacturing facilities, and municipalities. I completed SWPPPs and SPCCs, conducted storm water sampling, and operated a public water system on behalf of a municipality. I became a licensed Asbestos Inspector, Mold Assessment Technician, and LEED Accredited Professional.

#### **Environmental Geologist**

##### **Cirrus Associates**

March 2006 -- March 2006 (1 month)

At Cirrus Associates, I acted as a contract employee on a VCP project for a client in Odessa, Texas. I conducted sampling of groundwater monitoring wells using low-flow sampling techniques.

#### **Environmental Scientist**

##### **Delta Environmental**

August 2004 -- December 2005 (1 year 5 months)

At Delta Environmental, I worked conducted public drinking water sampling under a multimillion dollar TCEQ contract. I collected over 3,000 drinking water samples with a 99.8% laboratory acceptance rate. I was recognized as one of the top 5 samplers in the state for productivity and was trusted with the responsibility of training other samplers associated with the project. In addition, I conducted several ESAs to obtain more experience, when time would allow.

## **EDUCATION**

**University of North Texas**

**Bachelor of Science in Geography with a focus in Earth Science, Geology Minor**

1999 – 2004

*Activities and Societies:* Delta Zeta Sorority

## **ADDITIONAL INFORMATION**

### **Professional Education & Certifications:**

OSHA 29 CFR 1910.120 HAZWOPER 40 HR Certification

EPA Accredited Asbestos Inspector

TDSHS License Asbestos Inspector (License No. 602837)

TDSHS Licensed Mold Assessment Technician (License No. MAT1011)

TCEQ Class C Water Distribution Operator (License No. WD0007445)

Leadership in Energy and Environmental Design (LEED) Accredited Professional

Texas Commission on Environmental Quality (TCEQ) Certified Water Sampler under the Safe Drinking Water Act and State Regulations (ID No. 2005-006)

ORIS-Enviromod University- AERMOD Modeling For Permits Certification

### **Affiliations:**

The North Texas Association of Environmental Professionals

Society of Texas Environmental Professionals

Association of American Geographers

U.S. Green Building Council

## **CONTACT INFORMATION**

Email: [denavandenberg@yahoo.com](mailto:denavandenberg@yahoo.com)

Phone: (214) 364-7627

**APPENDIX E**

**Copies of Waste Disposal Documentation**



P.O. BOX 1271  
BOWIE, TEXAS 76230  
PHONE: 940-872-2552  
FAX: 661-465-2632

9255

### POLK R<sup>3</sup> FACILITY

NOTE: ALL INFORMATION MUST BE PROVIDED BELOW PRIOR TO BEING ALLOWED TO UNLOAD AT OUR FACILITIES. **NO EXCEPTIONS.**

TICKET  
DATE \_\_\_\_\_

MATERIAL TYPE \_\_\_\_\_ WASH OUT:  YES  NO

LEASE NAME \_\_\_\_\_ NO. \_\_\_\_\_

STATE/COUNTY \_\_\_\_\_

GENERATOR \_\_\_\_\_ BILL TO: \_\_\_\_\_

HAULER'S TICKET NO. \_\_\_\_\_

VOLUME BBL/YDS \_\_\_\_\_ AFE: \_\_\_\_\_

HAULER \_\_\_\_\_ TRUCK NO. \_\_\_\_\_

I certify that the information provided above is accurate to the best of my knowledge.

\_\_\_\_\_  
Driver's Signature

\_\_\_\_\_  
Driver's Printed Name

ED SALINAS

817-915-6204

**RAILROAD COMMISSION OF TEXAS**

Oil and Gas Division  
Compliance Section

District Office  
**INSPECTION REPORT**

D-O  
rev. 6/07

JOB NO. 2013-7219  
DISTRICT 09

OPERATOR Eagleridge Operating  
LEASE/FACILITY Smith-Yolander  
WELL No.(s) 7H  
FIELD Newark, East (Barnett Shale)  
COUNTY Denton  COSTAL MGT AREA  
 COMPLAINT NO. \_\_\_\_\_  
COMPLAINANT NAME \_\_\_\_\_  
DIRECTIONS \_\_\_\_\_

LEASE/ID \_\_\_\_\_  
DRILL PMT. NO. 742567  
PLANT NO. \_\_\_\_\_  
PIT PMT. NO. \_\_\_\_\_  
PIPELINE PMT NO. \_\_\_\_\_  
OTHER \_\_\_\_\_  
LE DOCKET \_\_\_\_\_  
SFP CODE \_\_\_\_\_  
SFCU CODE \_\_\_\_\_

MUST WITNESS  
 Field Initiated  
 Taken By Eberly  
 District  Austin  
 Backcheck  
 Co-inspection  
 Sweep  
TOTAL:  
UIC WELLS INSP 0  
WELLS INSP 0  
SITES INSP 1

GPS COORDINATES:  NO  YES LOG# Site  
LAT 33.22189 LONG 97.19301

% TIME UIC ##### ENV \_\_\_\_\_ SITE REM \_\_\_\_\_  
LEGAL ENF \_\_\_\_\_ PRO/PROD \_\_\_\_\_ TERRA \_\_\_\_\_  
SFP \_\_\_\_\_ OTHER \_\_\_\_\_

- ACTIVITY (check appropriate boxes)
- A  BLOWOUT
  - B  COM. SURFACE DISP. FAC.
  - C  COM. DISPOSAL WELL
  - D  FLARE/VENT
  - E  DISPOSAL/INJECTION
  - F  DRILLING RIG
  - G  FIRE
  - H  H2S COMPLIANCE INSP.
  - I  H2S INCIDENT
  - J  HYDROCARBON STRING
  - K  LEASE INSPECTION
  - L  MIT
  - M  MINOR PERMIT
  - N  OFFICE
  - O  OTHER
  - P  OIL SPILL (NON SEN)
  - Q  OIL SPILL (SENS)
  - R  PIT INSPECTION
  - S  PLANT INSP
  - T  PLUGGING (OPER)
  - U  PLUGGING (SFP)
  - V  PROD WATER SPILL
  - W  PROD TEST
  - X  PROD/INT CASING
  - Y  SEAL WELL
  - Z  SITE ASSMT (SFCU)
  - AA  SITE CLEAN UP SFCU
  - BB  SURFACE CASING
  - CC  WASTE HAULER

FIELD INSPECTION STATUS	COMPLIANCE		Prev viols.	New viols.	Total viols.
	yes	no			
SWR 2	Access to Property	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 3	Signs	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 8	Water Protection	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 9	Disposal Wells	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 13	Casing/Cementing	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 14(B)(2)	Inactive wells	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 17	Pressure on Bradenhead	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 21	Firewalls	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 22	Protection of Birds	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 27	Gas Metering	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 32	Flaring/Venting	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 36	Hydrogen Sulfide	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 46	Injection Wells	<input type="checkbox"/>	<input type="checkbox"/>		
SWR 91	Oil Spill Clean-up	<input type="checkbox"/>	<input type="checkbox"/>		
OTHER		<input type="checkbox"/>	<input type="checkbox"/>		
OTHER		<input type="checkbox"/>	<input type="checkbox"/>		

Comments: Met with Company men of Eagleridge operating to see the extent of damage from blowout  
Damage starts out at well heads south east, wind was out of NW the time of the blowout  
Damage to tree foliage and native grasses  
Can see salt crystals on foliage  
Eagleridge is going to power wash foliage with fresh water and then pick up fluid with a transport  
Alan Ricthey Transport is on site picking up puddles of fluid that had collected from blowout, rainwater  
and fresh water that was sprayed to prevent a flash fire during the blowout  
Road grader is on location scraping pad site  
Operator is going to have a 3rd party pull samples RRC Will witness  
See attached photos, tested sample from creek, 1150ppm  
See attached sketch

I CERTIFY THIS DATA IS TRUE AND COMPLETE:

TECH NO. 532 DATE 04/22/13

START: MILEAGE 45,535 TIME 11:50 LUNCH 60 (MIN)  
END: 45,574 14:55  Job Interrupt

OFFICE REVIEW  
BY \_\_\_\_\_  
DATE \_\_\_\_\_