

US EPA ARCHIVE DOCUMENT

An Addendum to the Cultural Assessment in Support of Greenhouse Gas Permitting for Required WPH Boilers and NO_x Controls



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Prepared for
INVISTA S.à r.l. (INVISTA)



Prepared by
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Austin, Texas

February, 2013

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INTRODUCTION

On February 12, 2013, AmaTerra Environmental, Inc. (AmaTerra) conducted a Phase I archaeological survey at the INVISTA S.à r.l. Victoria Plant (INVISTA), Victoria County, Texas. In an attempt to reduce nitrogen oxide emissions (NO_x), INVISTA proposed to retrofit four existing West Powerhouse (WPH) boilers with NO_x control systems, as well as modify existing boilers and fuel system piping. Before construction to reduce NO_x emissions can begin, a permit from the U.S. Environmental Protection Agency (USEPA) is required. This permit is known as the greenhouse gas (GHG) Clean Air Prevention of Significant Deterioration (PSD). Since INVISTA will receive this permit from a federal agency (USEPA), the proposed development is considered to be a Federal undertaking. Therefore, compliance with Section 106 of the National Historic Preservation Act of 1966 (Section 106) is required by law.

As part of the consultation process, the Texas State Historic Preservation Officer (SHPO) requested that archaeological investigations occur within a small portion of the Area of Potential Effects (APE) of the undertaking. The area investigated is referred to as the Area of Excavation (AOE), and is located in the northeastern portion of the INVISTA Victoria Plant Operating Area within a previously disturbed locale. Construction is slated to begin on or before May 1, 2013 and will encompass a single parcel measuring approximately 5,800-square feet in size. The AOE dimensions measure approximately 150 feet in length (~n-s) and 70 feet in width (~e-w). Recommendations from the SHPO and consultation with William [Bill] A. Martin of the Texas Historical Commission (THC) led to an archaeological survey strategy consisting of thirteen subsurface tests within the proposed AOE.

LOCATION

The West Powerhouse Complex is located within the INVISTA Victoria Plant Operating Area, Victoria County, Texas, approximately ten miles south/southeast of Victoria, Texas (**Figure 1**). The AOE, within the INVISTA operating area, is depicted on the Bloomington, TX USGS 7.5' topographic quadrangle (**Figure 2**). Land use is primarily industrial, with private transportation (e.g., rail lines) and utilities within or transecting INVISTA property. The INVISTA plant area includes approximately 1,400 acres of industrial development. Parcels surrounding INVISTA consist of undeveloped pasture and agricultural land. The AOE has been previously disturbed with sixteen support pillars and multiple underground pipes interspersed within the AOE (**Figure 3**).

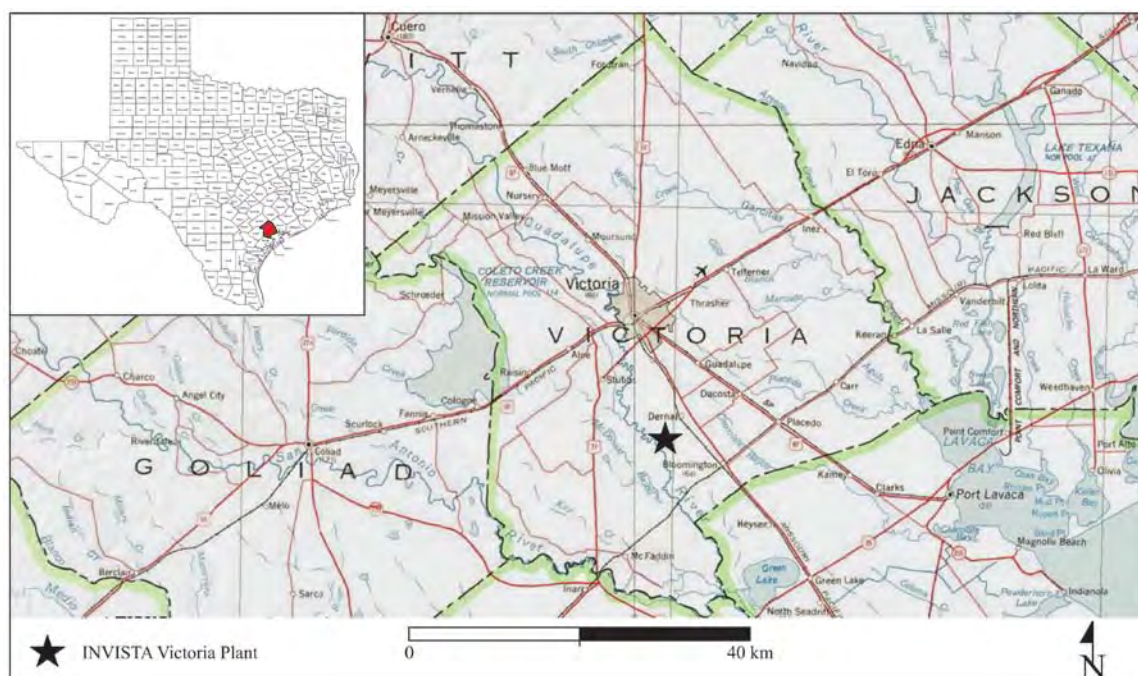


Figure 1. INVISTA Victoria Plant Location on Bloomington, TX 7.5' topographic quadrangle (1992). Adapted and modified from National Geographic (2008).

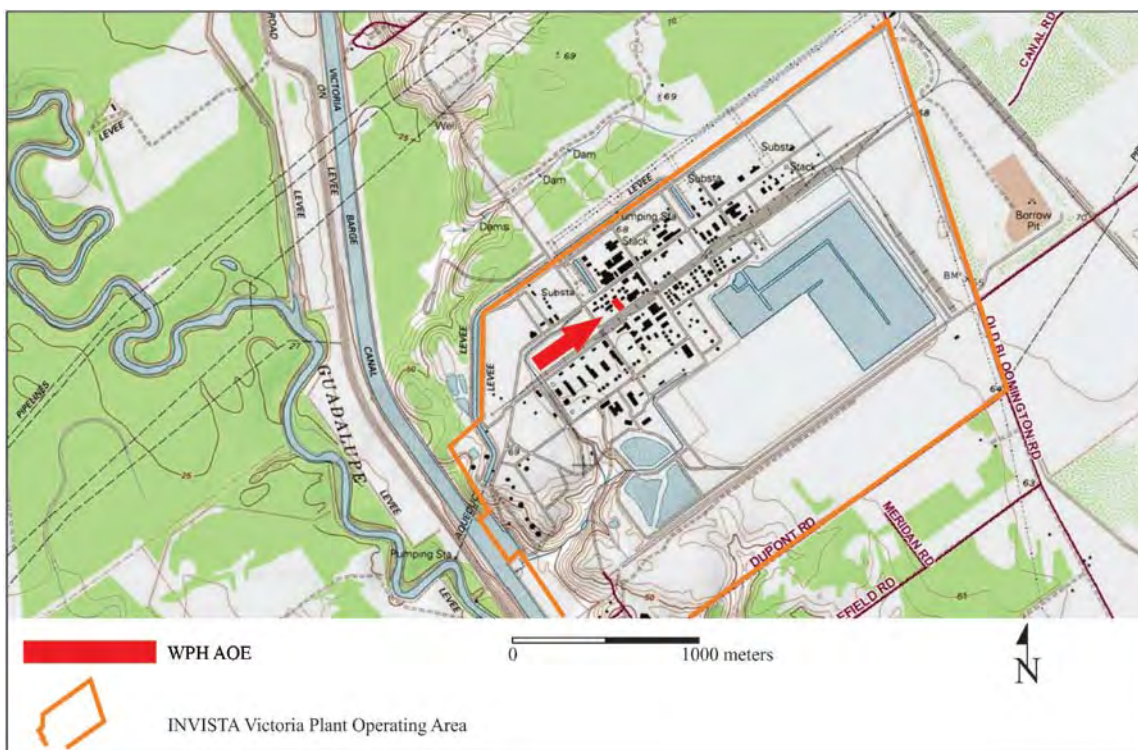


Figure 2. AOE location on Bloomington, TX 7.5' topographic quadrangle (1992). Adapted and modified from National Geographic (2008).



Figure 3. Photograph of the AOE. Note the disturbances (e.g., white gravel and support pillars); photographed facing approx. south.

ENVIRONMENT

Victoria County (887 square miles) is located in southeastern Texas on the Coastal Plain within the vegetational environment classified as Gulf Prairies and Marshes. According to the U.S. Department of Agriculture (USDA) Soil Conservation Service, the project area falls within the Lake Charles – Urban land complex of soils (NRCS 2012). The underlying geology of the project area is Quaternary-aged Beaumont Formations composed of clay, silt, sand, and gravel deposited through fluvio-marine processes along waterways within the past 2.6 million years. The formations vary from mainly clay and silt, to mainly clay and mud (BEG 1992). The local region is characterized by level to gently rolling prairies with primarily dark clay loams that support tall grasses, Big Bluestem, Little Bluestem, Indian Grass, Live Oak (*Quercus virginiana*), Southern Red Cedar (*Juniperus silicicola*), Durand White Oak (*Quercus sinuata* var. *sinuata*) (Simpson 1999), mesquite, prickly pear, and other related native vegetation (Roell 2012). Annual precipitation ranges from 42 to 55 inches with a mean annual temperature of 68-70° F (USDA Web Soil Survey 2013).

Most of the regional native coastal prairie is now pastureland, cropland, or residential, urban, commercial, and industrial development. The area surrounding the INVISTA facility is primarily undeveloped brushland associated with rangeland and abandoned or active agricultural lands. Local agricultural products include rice, cotton, grain sorghum, and corn (Simpson 1999). The Victoria barge canal is directly west and southwest of the INVISTA facility, and the Guadalupe River is approximately 2,000 meters (m) west of the WPH project area (see **Figure 2**).

PREVIOUS ARCHAEOLOGICAL RESEARCH

According to the THC Historic Sites Atlas, the AOE has not been previously investigated for archaeological resources and no previously recorded archaeological sites fall within the AOE. However, much of the area surrounding the AOE has been previously investigated. Twenty-three archaeological sites (nine historic, seven prehistoric, six multicomponent, and one historic cemetery) have been recorded within the Bloomington, TX USGS 7.5' quadrangle (**Figure 4**). In addition, a total of six archaeological surveys have been conducted within the quadrangle. Local surveys include an areal and testing survey conducted in 1989 and an areal survey carried out in 2004. Both surveys are located approximately .8 kilometers to the west/southwest of the West Powerhouse Complex AOE (see **Figure 4**). The 2004 survey did not locate any newly discovered archaeological sites, while the 1989 survey documented three (41VT101, -102, and -103) archaeological sites of prehistoric age. In addition to reviewing the THC Atlas, a historic map dating to 1913 indicates that the AOE and much of the INVISTA operating area was vacant, serving as an open pasture land, for much of the Twentieth century (**Figure 5**). According to the 1913 map, the community of Dernal and a sugar mill were within the vicinity of the INVISTA Operating Area, though not within the AOE.

Of the 23 archaeological sites, most notably are those cultural resources falling within or near the AOE. A total of eight recorded archaeological sites fall within three kilometers of the AOE: 41VT79, 41VT94, 41VT98, 41VT99, 41VT101, 41VT102, 41VT103, and 41VT113. The sites are generally located along the barge canal to the west of the facility and more than 1,000 m from the AOE. The sites were primarily identified during the dredging activities associated with the building of the Victoria Barge Canal. Three of the eight sites were not recommended as having potential for listing on the NRHP or as a State Archeological Landmark (SAL). One site had no recommendation, and its status remains undetermined. Four sites were recommended for listing on the NRHP or as a SAL. A detailed description of the cultural resources identified on the 1913 historic map will be provided below.

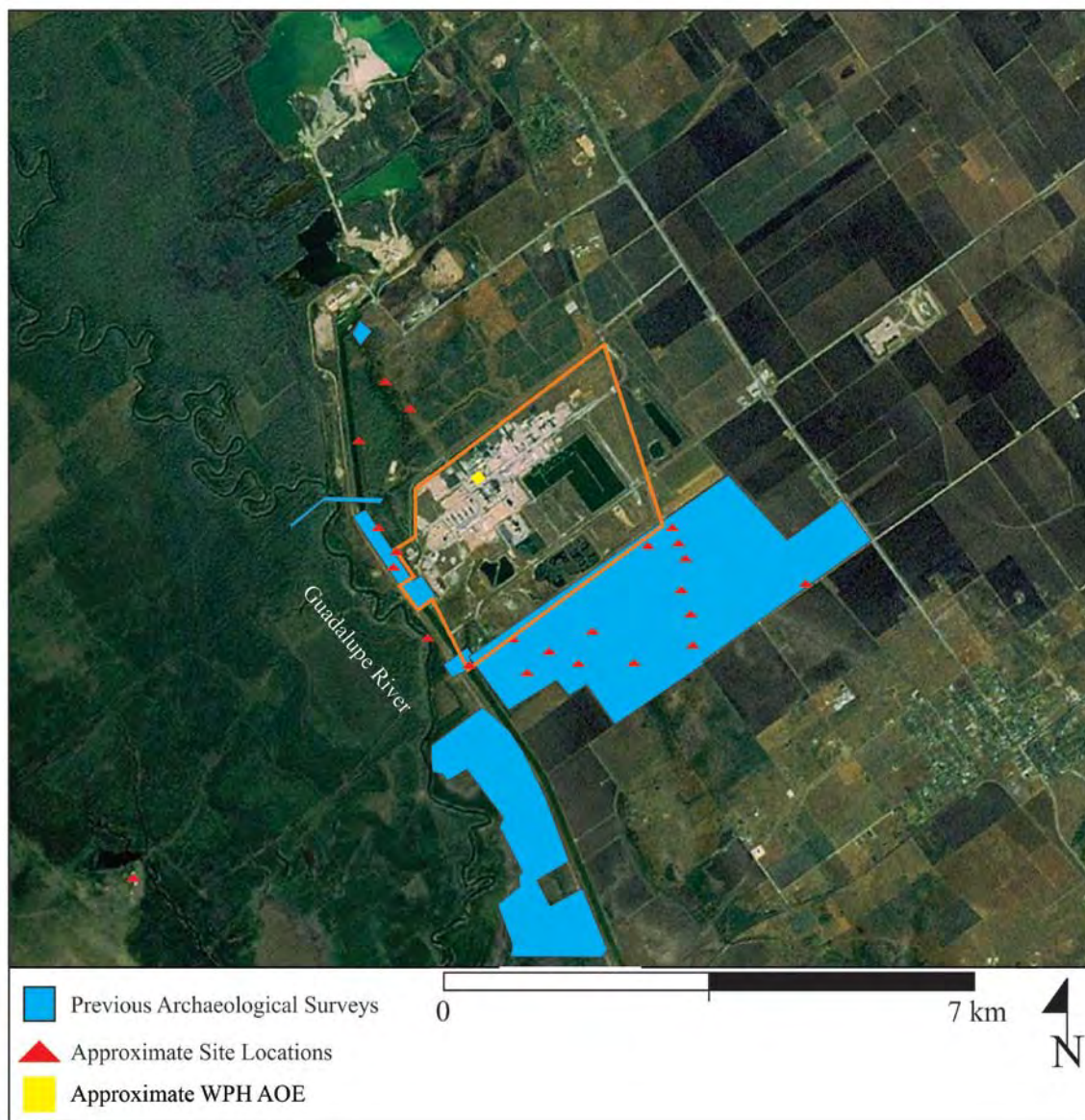


Figure 4. Location of previously recorded archaeological sites and cultural resource surveys within the Bloomington, TX quadrangle. Adapted and modified from Texas Historical Commission Site Atlas (2013).

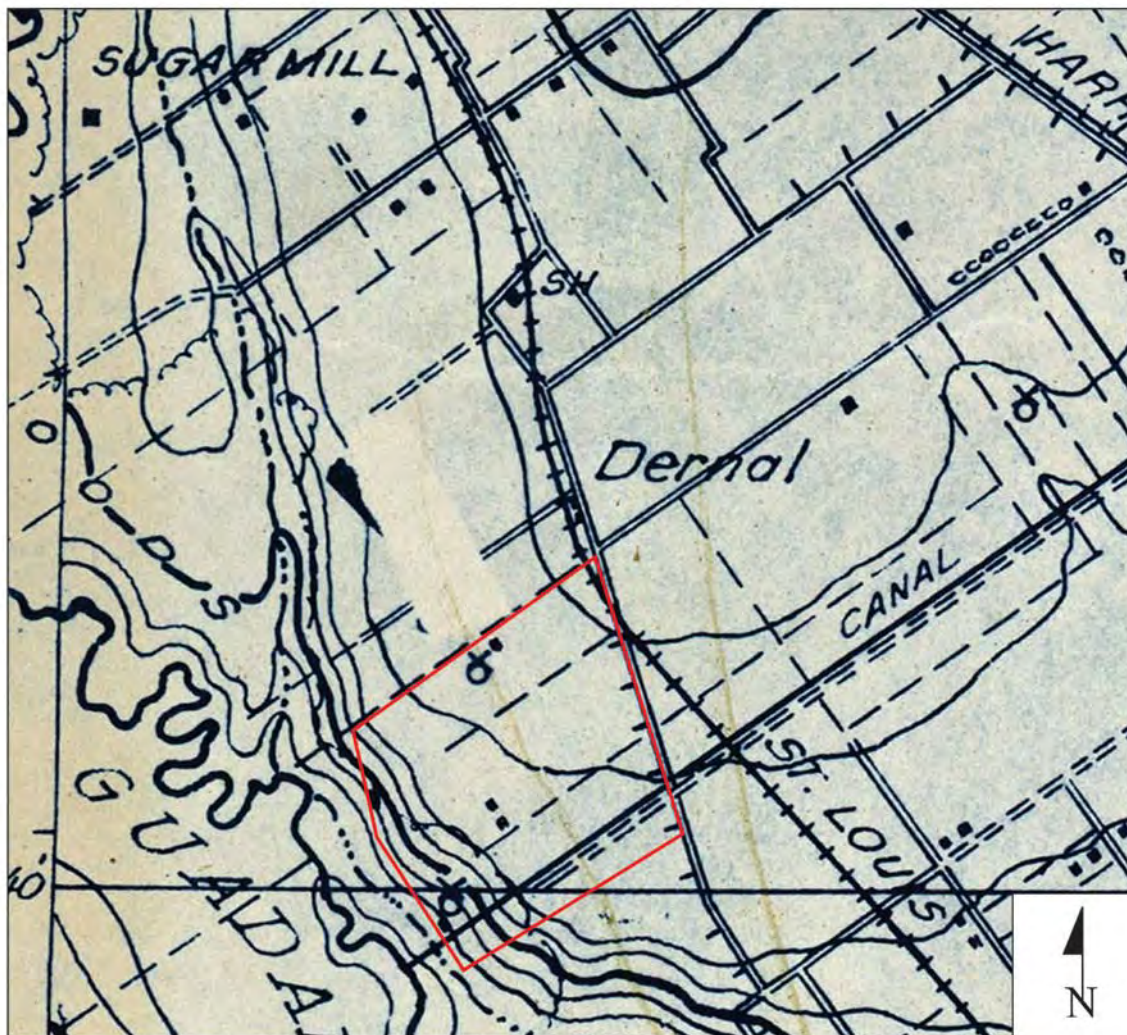


Figure 5. Historic map dating to 1913, depicting the current location of the INVISTA Victoria Plant Operating Area (outlined in red). Note the presence of three historic structures present within the operating area. These structures fall outside of the WPH AOE and are no longer present on the INVISTA property. Adapted and modified from US Corps of Engineers (1913).

REGIONAL CULTURAL RESOURCES

According to the Handbook of Texas Online (2013), Dernal, Texas was located along the St. Louis, Brownsville, and Mexico rail line. By 1947 the population in Dernal was recorded at 25 residents. Economic activities likely centered on agriculture with a cotton gin in use around 1947 (Jaschke 2013). According to available information, the small farming community of Dernal is still in existence today.

A search for sugar mills within Victoria County did not yield any potential candidates for the mill depicted in the 1913 map. One sugar mill was reported to have been constructed

in 1910, but its location does not coincide with the sugar mill illustrated on the historic 1913 map. At the moment no conclusions can be drawn about the history of the sugar mill depicted in Figure 5. Since the sugar mill falls well outside of the AOE additional research exceeds the scope of work for this project.

METHODS

Archaeological investigations were conducted on February 12, 2013 by Project Archaeologist Julian (Drew) Sitters, assisted by Jimmy Otto (Project Lead), Clifton Geter (Project Engineer), Greg Cruz (Backhoe Operator), Nick Cantra (Field Crew), and Ernest Gurrón (Field Crew). Fieldwork began at 9:00 AM and was carried out within an area approximately 5,800 square feet (.133 acre) in size (see **Figure 3**). Eleven 2 x 1-foot test pits (**Figure 6**) were excavated with a small backhoe in arbitrary 20 cm levels to a depth well below the Pleistocene-aged clay horizon, terminating at 70-90 centimeters below surface (cmbs). All excavated soil, when possible, was screened through ¼-inch mesh. No artifacts were collected. The Universal Transverse Mercator (UTM) coordinates of all tests were recorded using a hand held GPS receiver (Magellan Triton). Prior to excavation the surface was scraped using a backhoe in order to remove white gravel at the surface, which contained natural chert fragments. The chert fragments were viewed as a potential obstacle to cultural material identification. At the completion of each test pit, soil profiles were recorded and photographed using a Sony Cyber Shot 7.2 megapixels camera. The test pits were then backfilled and leveled using the backhoe. White gravel was then brought in to cover the excavated areas. Fieldwork concluded at approximately 2:30 PM, and the area was deemed devoid of cultural material.

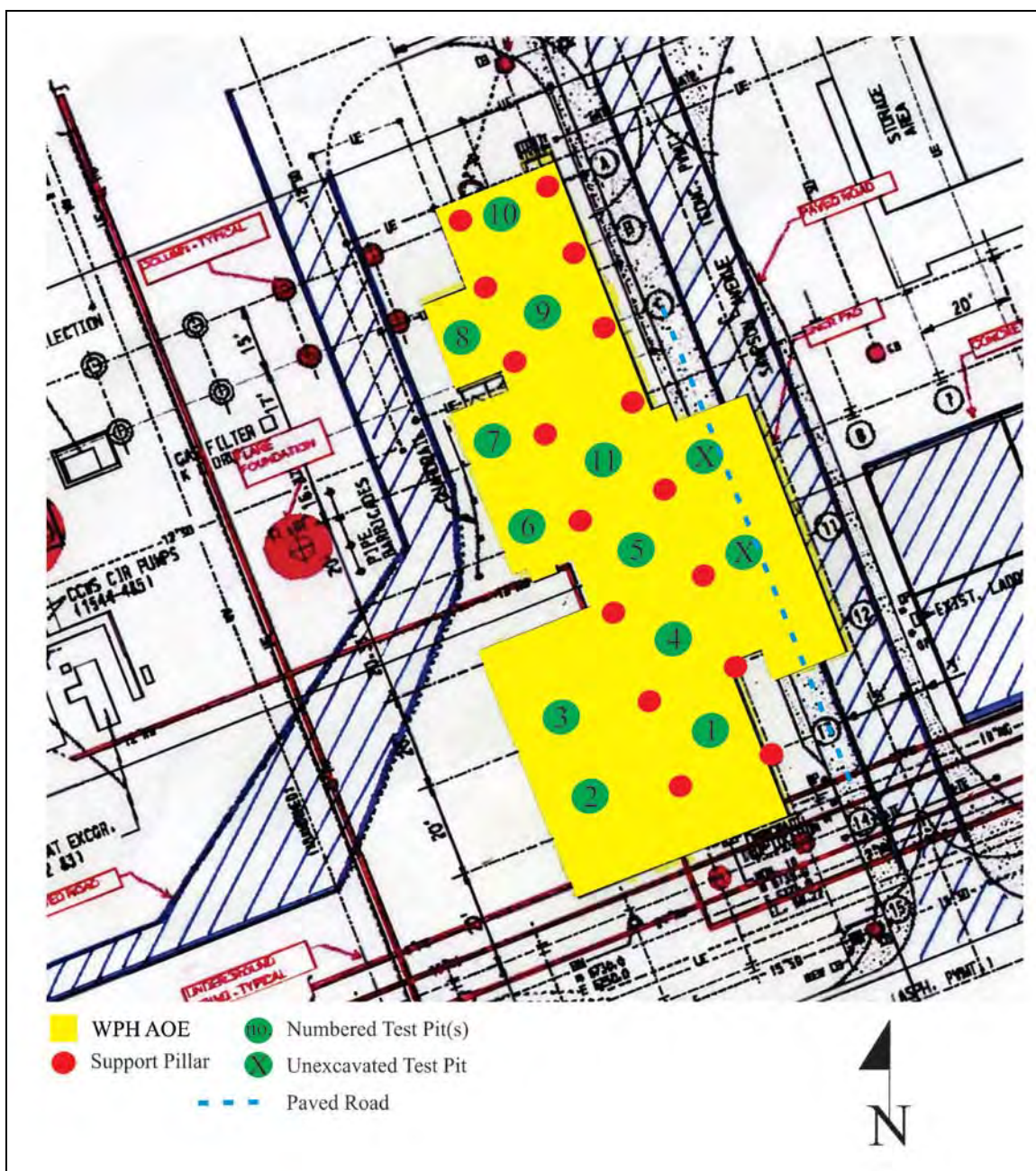


Figure 6. Test pit locations within the MPH AOE. Adapted and modified from INVISTA S.à r.l. (2012).

RESULTS

West Powerhouse Project Area

The AOE was flat, cleared, and overlaid with white gravel to prevent erosion and plant growth (**Figure 7**). Natural ground surface visibility was reduced to 0 percent as a result of this white gravel. Sixteen support pillars are located within the project area with a paved road bisecting the eastern most portion of the AOE. No subsurface testing was conducted where the road overlaid the project area, ultimately reducing the number of recommended subsurface tests from 13 to 11. No archaeological material or features were observed on the ground surface.



Figure 7. Removal of white gravel layer prior to test pit excavation. Note the difference in top soil (foundation) color. Moving across the AOE (approx. south-north) the soil color becomes lighter.

The AOE had been previously graded and stabilized prior to power plant system construction (personal communication Jimmy Otto 2013) and these disturbances were observed in the field. Modern debris (ferrous metal and plastic) was also observed on the surface. Eleven test pits were excavated in the WPH AOE and all were devoid of cultural resources (**Table 1**). Based on test pit observations soils consisted of foundation materials (e.g., white gravel, crushed oyster shell, and river gravels) and mottled clay (Munsell: 10YR 3/1, 5/1, and 5/6) in the upper 30 centimeters. This zone is non-native fill and lacks any potential for containing archaeological resources. In most test pits, very dark (10YR 3/1) dense clay is present at 30 cmbs (directly below the disturbed layer described above) extending to a depth of 90+ cmbs. However, in some test pits (no. 01, 03, 07) pale brown sand (10YR 6/3) was present between 30 and 60 cmbs, in-between the disturbed layer and Plesitocene-age clay (**Figure 8**). According to Jimmy Otto (2013), this sand is pipe fill. This was confirmed by the presence of previously marked surface indicators, denoting the location of buried pipes, adjacent to the test pits containing sand. No cultural resources were observed in any of the test pits.

Test Pit No.	UTM Coordinates (14R)	Depth	Cultural Material
01	N3173617/E699691	0-70	N
02	N3173637/E699668	0-90	N
03	N3173640/E699667	0-74	N
04	N3173637/E699674	0-82	N
05	N3173643/E699669	0-82	N
06	N3173635/E699649	0-75	N
07	N3173651/E699653	0-90	N
08	N3173653/E699654	0-90	N
09	N3173661/E699656	0-74	N
010	N3173665/E699657	0-90	N
011	N3173650/E699664	0-86	N

Table 1. Results of subsurface testing at the West Powerhouse AOE.

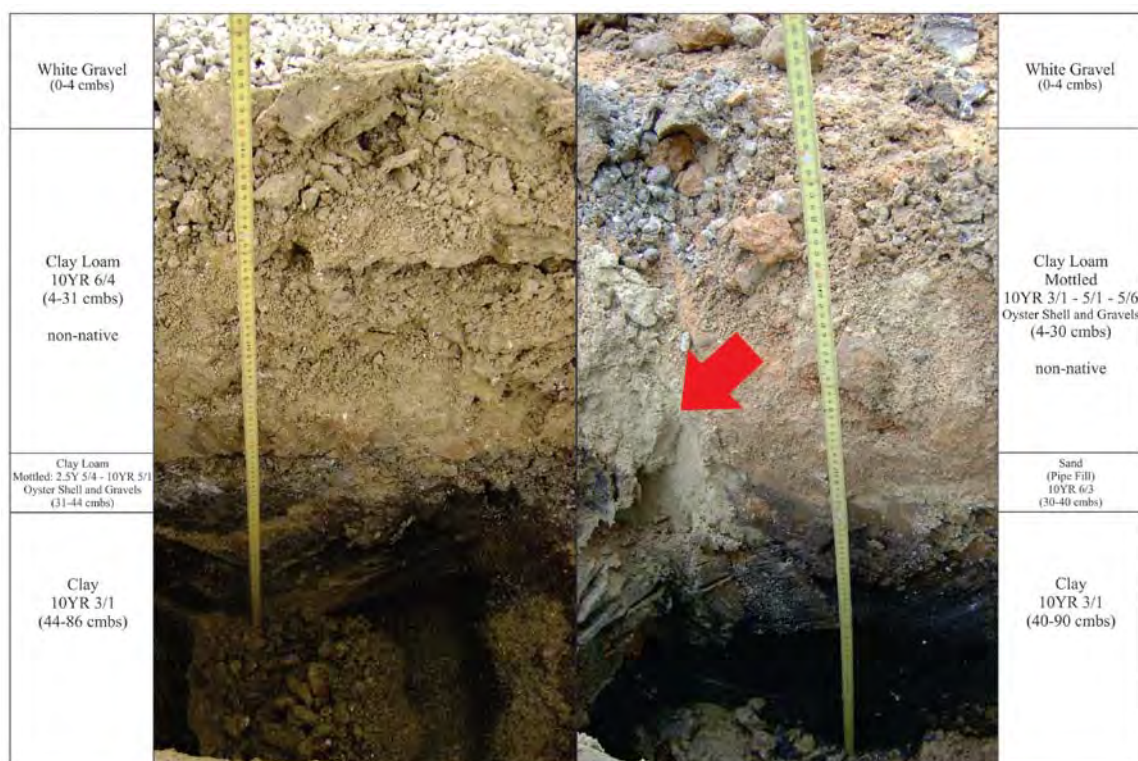


Figure 8. Typical soil profiles observed in test pits (soil profiles not drawn to scale). Note the sand used as pipe fill denoted by the red arrow.

Summary

No archaeological material or features were observed on the ground surface within the WPH AOE. Eleven test pits were mechanically excavated within the parcel totaling 5,800 square feet or .133 acre. None of the 11 test pits contained archaeological resources and in fact all exhibited disturbed fill at a depth of at least 30 cmbs. No archaeological sites or isolated artifacts were found within the proposed AOE.

CONCLUSIONS AND RECOMMENDATIONS

No archaeological resources are located within the surveyed AOE. The proposed industrial undertaking will not affect any cultural resources and no further work is warranted.

Unexpected discoveries are not anticipated during construction, but are always a possibility. Should human remains be discovered, all work in the immediate vicinity should cease and the SHPO should be immediately consulted.

REFERENCES CITED

Bureau of Economic Geology (BEG) Map of Texas

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Gadus, Eloise, Marie Blake, Martha Doty Freeman, and Karl W. Kibler

1999 *National Register Testing of Prehistoric and Historic Sites and Survey of Placement Areas, Channel to Victoria Project, Calhoun and Victoria Counties, Texas*. Reports of Investigations, Number 121. Prewitt and Associates, Inc., Austin.

Jaschke, M. B.

2013 Dernal, TX – Handbook of Texas Online, Electronic document, <http://www.tshaonline.org/handbook/online/articles/htd11>, accessed February 2013.

Natural Resources Conservation Service (NRCS) Web Soil Survey

2012 Bloomington, TX Quadrangle Soils – NRCS Web Soil Survey, Electronic document, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, accessed August 2012.

Simpson, Benny J.

1999 *A Field Guide to Texas Trees*. Lone Star Books, New York.

Texas Historical Commission (THC)

2013 Bloomington, TX Quadrangle – Texas Archaeological Sites Atlas, Electronic document, <http://nueces.thc.state.tx.us/>, accessed February 2013.

United States Army Corps of Engineers

1913 Historical Map of Victoria County 1:1250,000 – University of Texas Perry Castaneda Library, electronic document, <http://www.lib.utexas.edu/maps/topo/texas/txu-pclmaps-topo-tx-victoria-1913.jpg>, accessed February 2013.

United States Department of Agriculture (USDA) Web Soil Survey

2013 Bloomington, TX Quadrangle Precipitation and Temperature – USDA Web Soil Survey, Electronic Document, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, accessed February 2013.

APPENDIX A- RESUMES

Curriculum Vitae

Julian Andrew Sitters

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2012 M.A. Anthropology, University of Wyoming-Laramie (August 2010-December 2012)

2007 B.A. Anthropology, Texas State University-San Marcos (August 2004- August 2007)

2003 Texas A&M University-College Station, Texas (August 2003-August 2004)

Work Experience:

12/12-present Project Archaeologist. AmaTerra Environmental, Inc. Duties include leading field projects, artifact analysis, and preparing technical reports.

11/12-12/12 Field Archaeologist. HDR, Inc. White Sands Missile Complex Cultural Survey, New Mexico. Judy Berryman, Principal Investigator. Duties include linear survey, photography, site delineation using ArcPad, and data recording using an Apple iPad.

10/12-11/12 Field Archaeologist. SWCA Environmental Consultants. MGP Pipeline Survey, Uvalde and Val Verde County, Texas. Michael Crow, Principal Investigator. Duties included linear survey, shovel testing and site delineation.

10/12 Field Archaeologist. Cultural Resource Analysts, Inc. Moorehouse Parish 115 Acre Survey, Moorehouse Parish, Louisiana. Ben Bilgri, Field Director. Duties included linear survey and shovel testing.

09/12-10/12 Field Archaeologist. Cultural Resource Analysts, Inc. Camp Minden 285 Acre Archaeological Survey, Minden, Webster Parish, Louisiana. Jay Gray, Principal Investigator. Duties included linear survey, shovel testing, and site delineation.

06/12-08/12 Field Archaeologist. Horizon Environmental Services, Inc. Archaeological Compliance for Seaway Loop Pipeline, Houston, Texas. Russ Brownlow, Principal Investigator. Duties included shovel testing, compiling field notes, and photography.

05/12 Field Archaeologist. Montgomery Archaeological Consultants, Inc. Excavation of Site 42CB2910, Nine Mile Canyon, Utah. Jody J. Patterson, Principal Investigator. Duties included the excavation of a single component site, screening soil matrix, curation of cultural material, drawing stratigraphic profiles, and testing areas of interest.

11/07-08/10 Staff Archaeologist. Center for Archaeological Studies. Jon C. Lohse, Director. Duties included phase 1, 2, and 3 testing, lithic analysis, curation of cultural materials, producing illustrations for site report publications, co- authoring on site reports, research design, and directing novice archaeologists in the field.

Teaching Positions:

01/12-05/12 Graduate Teaching Assistant. Anthropology, University of Wyoming-Laramie. Introduction to Archaeology (ANTH 1300). Supervisor(s): Dr. Nicole Waguespack and Heather Rockwell (PhD Candidate). Duties included addressing student concerns during class and office hours, grading and reporting course grades, and lecturing.

08/11-12/11 Graduate Teaching Assistant. Anthropology, University of Wyoming-Laramie. Introduction to Cultural Anthropology (ANTH 1200) and Introduction to Linguistic Anthropology (ANTH 2000). Supervisor(s): Dr. Lin Poyer and Dr. Ruth Toulson. Duties included addressing student concerns during class and office hours, grading and reporting course grades, and lecturing.

Research and Volunteer Positions:

02/13 Volunteer Research Assistant. AmaTerra Environmental, Inc. Geophysical Survey of the Merrelltown Cemetery, Austin, Travis County, Texas. Mason Miller, Principal Investigator. Duties included collecting remote sensing data using a SIR-3000 GPR instrument, laying out the survey grid, and collecting field data relevant to the project.

01/13 Volunteer Archaeologist. AmaTerra Environmental, Inc. Archaeological Testing of Two Parcels for Habitat for Humanity, San Antonio, Bexar County, Texas. Duties included shovel testing a single parcel slated for low income housing development.

02/12 Volunteer Research Assistant. Soil Microbes and Archaeology: Exploring the Potential at Hell Gap, Wyoming. Brigid S. Grund, PhD Candidate and Principal Investigator. Duties included preparing an exposed profile (2m in depth) for soil sample recovery.

06/11 Volunteer Research Assistant. University of Wyoming-Laramie. Geophysical Survey of the Quartermaster's Dump at Fort Laramie, Goshen County, Wyoming. Danny N. Walker, Principal Investigator. Duties included collecting remote sensing data using a FM-36 gradiometer.

08/10-05/11 Internship. Anthropology, University of Wyoming-Laramie. The internship involved working with an anthropology faculty member, Dr. Charles Reher, in the preparation of a National Register nomination. Duties included conducting a site revisit, background research, determining the sites integrity as outlined by the National Register for Historic Places, and presenting the results to the public.

- 08/09 Volunteer Archaeologist. Gault School for Archaeological Research. Salvage Archaeology and Geoarchaeological Investigation of a Prehistoric Human Internment in Oyster Creek, Brazoria County, Texas. Michael B. Collins, Principal Investigator.
- 07/09 Volunteer Research Assistant. 3D Imaging of Burned Rock Middens in the Lower Pecos, Val Verde County, Texas. Jon A. Campbell, Master's Student and Principal Investigator. Duties included assisting the graduate student with site survey and in the collection of 3D imaging data.
- 11/08-05/10 Volunteer Archaeologist. Texas Archeological Research Laboratory Gault Project. Data Recovery at Site 41BL323, Williamson County, Texas. Michael B. Collins, Director and Principal Investigator. Duties included the excavation of multiple 1x1 m units containing Paleo- Indian cultural material and taking detailed notes pertaining to the context in which the artifacts were recovered.
- Field and Laboratory Experience:**
- 02/13 Project Archaeologist. AmaTerra Environmental. Archaeological Survey of the West Powerhouse Complex at the INVISTA S.à r.l Victoria Plant, Victoria County, Texas.
- 08/12 Field Director. Remote Sensing: A Multimethodological Approach to the Detection of Graves, Tie Siding, Albany County, Wyoming. Danny N. Walker, Principal Investigator. As field director, I surveyed four 20x20m grids using an electrical resistivity meter, assisted in collecting data using a FM-36 gradiometer for nine 20x20m grids, collected stratigraphic data, ground truthed locations suspected of containing human burials, collected locational data using a GPS, and mapped features of interest within the cemetery boundaries.
- 07/11 Field Archaeologist. Data Recovery at Site La Fosse, Mayenne, France. Nicolas Naudinot, Principal Investigator. Duties included the excavation of five 1x1 m units, recording spatial data of artifacts using a total datum station (TDS), water screening, photographing units, and washing artifacts.
- 11/09-08/10 Lithic Analyst. Microscopic Use-wear Analysis of Projectile Points from Site 41HY160 and 41HY163, San Marcos, Hays County, Texas. Center for Archaeological Studies – Texas State University.
- 01/10 Field Archaeologist. Center for Archaeological Studies. Small-Scale Archaeological Testing at the San Felipe de Austin State Historic Site (41AU2), Austin County, Texas. Antiquities Permit No. 5479. Jon C. Lohse, Principal Investigator.
- 11/09-12/09 Field Archaeologist. Center for Archaeological Studies. Intensive Archaeological Survey for the Proposed Plum Creek Preserve and Nature Trail, Hays County, Texas. Antiquities Permit No. 5457. Jon C. Lohse, Principal Investigator.

- 11/09 Field Archaeologist. Center for Archaeological Studies. Cultural Resource Survey of the Fort Griffin State Historic Site, Shackelford County, Texas. Antiquities Permit No. 5438. Jon C. Lohse, Principal Investigator.
- 10/09-11/09 Field Archaeologist. Center for Archaeological Studies. Additional Archaeological Investigations at the Fulton Mansion State Historic Site, Rockport, Aransas County, Texas. Antiquities Permit No. 5420. Jon C. Lohse, Principal Investigator.
- 11/07-11/09 Field and Laboratory Archaeologist. Center for Archaeological Studies. Data Recovery at Site 41HY163, San Marcos, Hays County, Texas. Jon C. Lohse, Principal Investigator.
- 09/09 Field Archaeologist. Center for Archaeological Studies. Jowers-Strahan Water Chilling Station Assessment and Monitoring, Hays County, Texas. Antiquities Permit No. 5416. Jon C. Lohse, Principal Investigator.
- 09/09 Crew Chief. Center for Archaeological Studies. Fish Pond Monitoring, Hays County, Texas. Antiquities Permit No. 5385. Jon C. Lohse, Principal Investigator.
- 08/09 Field Archaeologist. Center for Archaeological Studies. Round Rock Survey, Williamson County, Texas. Antiquities Permit No. 5338. Jon C. Lohse, Principal Investigator.
- 07/09 Crew Chief. Center for Archaeological Studies. Herd Ranch Survey, Menard, Menard County, Texas. Jon C. Lohse, Principal Investigator.
- 04/09 Crew Chief. Center for Archaeological Studies. Fairfield Lake State Park Survey, Fairfield, Freestone County, Texas. Antiquities Permit No. 5203. Jon C. Lohse, Principal Investigator.
- 01/09 Field Archaeologist. Proyecto Archaeologico y Paleontologico Chivacabe, Huehuetenango, Guatemala. Center for Archaeological Studies – Texas State University. Jon C. Lohse, Principal Investigator. Duties included the excavation of a witness block and the screening of soil matrix.
- 09/08 Field Archaeologist. Center for Archaeological Studies. Data Recovery and Preservation at Site 41GU4, Guadalupe County, Texas. Jon C. Lohse, Principal Investigator.
- 04/08 Crew Chief. Center for Archaeological Studies. Clear Springs Apartment Survey, Texas State University-San Marcos, Hays County, Texas. Antiquities Permit No. 4841. Jon C. Lohse, Principal Investigator.

- 03/08 Field Archaeologist. Center for Archaeological Studies. Survey for Freeman Ranch Forensic Studies Facility, Texas State University-San Marcos, Hays County, Texas. Antiquities Permit No. 4842. Jon C. Lohse, Principal Investigator.
- 02/08 Field Archaeologist. Center for Archaeological Studies. Survey for El Camino Real City Park, San Marcos, Hays County, Texas. Antiquities Permit No. 4684. Jon C. Lohse, Principal Investigator.
- 07/07 Field School Participant. Texas State University-San Marcos Field School. Data Recovery at Site Cahal Pech, Cayo District, Belize. Dr. Jim Garber, Director and Principal Investigator. Duties included the excavation of a 1x1 m unit and a 2x2 m unit, screening soil matrix, drawing plan and profile maps of both intact features and stratigraphy, and curating recovered cultural material.
- Workshop(s):**
- 09/12 Webinar Participant. National NAGPRA Databases: An Overview. Mariah Soriano, Database Coordinator and Maya P. Solis, NCPE Intern. National Park Service. As a participant, I was introduced to the NAGPRA online databases, offering information on various NAGPRA-related topics. The webinar focused on teaching participants how to navigate the databases and search for desired information.
- 05/11 Workshop Participant. Current Archaeological Prospection: Advances for Non-Destructive Investigations in the 21st Century, Brownsville, Texas. Steven L. DeVore, Director. National Park Service. As a participant, I was introduced to various remote sensing instruments in the field, attended various lectures, and was introduced to data processing.
- 2008 Workshop Participant. Cultural Resource Management: Not Just Archaeology, San Marcos, Texas. Thomas F. King, Keynote Speaker. Center for Archaeological Studies – Texas State University. As a participant, I was introduced to the various laws designed to protect cultural resources (e.g., Section 106, NAGPRA, NEPA, and ARPA).

Scholarly Publication(s):

Sitters, Julian A.

- 2012 *Remote Sensing: A Multi-Methodological Approach to the Detection of Graves*. Unpublished MA Thesis, Department of Anthropology, University of Wyoming, Laramie.

Technical Publications:

Sitters, Julian A., and Rachel Feit

- 2013 *Archaeological Survey of the West Powerhouse Complex at the INVISTA S.à r.l Victoria Plant, Victoria County, Texas*. AmaTerra Environmental, Inc. Austin, Texas

Sitters, Julian A., and Charles A. Reher

- 2012 *Muddy Creek Archaeological Complex*. Nomination to the National Register of Historic Places. 3 contributing archaeological sites. Prepared for the University of Wyoming.

Sitters, Julian A., and Jon C. Lohse

- 2010 Bifaces. In *Prehistoric Life, Labor, and Residence in Southeast Central Texas: Results of Data Recovery at 41HY163, The Zatopec Site, San Marcos, Texas*, edited by Jon C. Lohse, pp. 297-322. Archaeological Studies Report No. 18. Texas State University-San Marcos, TX.

Sitters, Julian A., H. Jennifer Kimbell, Jon C. Lohse, and Carole Leezer

- 2010 *Archaeological Assessment of the Proposed Locations of New Interpretive Signs and a Buried Power Line at Fort Griffin State Historic Site, Shackelford County, Texas*. Center for Archaeological Studies Technical Report No. 42. Texas State University-San Marcos, TX.

Sitters, Julian A., L. Cinda Timperley, and Carole Leezer

- 2010 *Additional Archaeological Investigations of the Proposed Fulton Mansion's Visitor Center, Fulton Mansion State Historic Site, Rockport, Aransas County, Texas*. Center for Archaeological Studies Archaeological Studies Report No. 20. Texas State University-San Marcos, TX.

Sitters, Julian A., Jennifer H. Kimbell, and Jon C. Lohse

- 2010 *Intensive Archaeological Survey for the Proposed Plum Creek Preserve and Nature Trail, Hays County, Texas*. Center for Archaeological Studies Technical Report No. 39. Texas State University-San Marcos, TX.

Sitters, Julian A., and Jon C. Lohse

- 2009 *Results of Archaeological Monitoring of Minor Waterline Repair at Fish Ponds, Texas State University-San Marcos, Hays County, Texas*. Center for Archaeological Studies Technical Report No. 36. Texas State University-San Marcos, TX

Sitters, Julian A., David M. Yelacic, Cinda L. Timperley, Sarah Scogin, and Jon C. Lohse
2009 *Archaeological Investigations on the Herd Ranch in Western Menard County, Texas*. Center for Archaeological Studies Archaeological Studies Report No. 19. Texas State University-San Marcos, TX.

Sitters, Julian A., Jon C. Lohse, and David M. Yelacic
2009 *Results of Archaeological Survey and Limited Archival Research of the Fairfield Lake State Park, Freestone County, Texas*. Center for Archaeological Studies Archaeological Studies Report No. 17. Texas State University-San Marcos, TX.

Sitters, Julian A., David M. Yelacic, and Jon C. Lohse
2008 *Results of Archaeological Trench Monitoring at Clear Springs Apartments, Texas State University-San Marcos, Hays County, Texas*. Center for Archaeological Studies Technical Report No. 34. Texas State University-San Marcos, TX.

Skills:

Microsoft Office (Access, Excel, PowerPoint, and Word)

Golden Software: Surfer 9

Adobe Photoshop CS5

CorelDraw X5

Geoscan RM15 Electrical Resistivity Meter

Geoscan FM-36 Gradiometer

Handheld GPS (Garmin ForeTrex 301 and Trimble Juno 3B)

Sighting Compass: Suunto KB-20

Digital Calipers: Mitutoyo 500-196-20 Digimatic

Photography: Canon EOS Rebel T3

Photo Scanner: EPSON Perfection V500

Professional Presentations:

2011 *La Fosse: A Post-Glacial Site in Western France*. Presented at the George C. Frison Institute Board Meeting, University of Wyoming-Laramie.

2011 *The Muddy Creek Complex: A Besant Cultural Complex in the Foothills of the Shirley Mountains*. Presented at the Wyoming Archaeological Society/Wyoming Association of Professional Archaeologists - Annual Meeting, Sheridan, Wyoming.

Membership in Learned Societies:

2012 International Society for Archaeological Prospection

2012 Society for American Archaeology

2012 Society of Exploration Geophysicists

2012 Society for Historical Archaeology

2012 Texas Archaeological Society

Honors and Awards:

2003 Eagle Scout - Boy Scouts of America, Troop 86, El Paso, Texas.

References:Jon C. Lohse, Ph.D.

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Rachel Jane Feit

Principal Investigator, Archeology

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EDUCATION:

MA in Anthropology, University of Texas at Austin 1995-1998. Thesis entitled *Mealtime Stories: A Study of Cooking and Daily Life at Farmhouse 151 in the Chora of Chersonesos, Ukraine*.
BA in Anthropology, University of Chicago 1986-1990, awarded with honors.

PROFESSIONAL EXPERIENCE:

September 2007-present, Principal Investigator- AmaTerra Environmental/Ecological Communications Corporation, Austin, Texas. Duties involve archeology program management and staff supervision. Responsibilities also include project management for NEPA document preparation, historic and prehistoric archeology projects under federal and state compliance regulations, historical archival research, artifact and data analysis, report writing, proposal/budget writing, and client/agency coordination.

October 1998-September 2007. Principal Investigator- Hicks & Company, Austin, Texas. Duties involved archeology program management and staff supervision. Responsibilities also include project management for NEPA document preparation, historic and prehistoric archeology projects under federal and state compliance regulations, historical archival research, artifact and data analysis, report writing, proposal/budget writing, and client/agency coordination.

July 1998-September 1998. Field Technician- PBS&J, Austin, Texas. Participated on excavation of a historic African American cemetery in Houston, Texas. Duties included excavation, recording and mapping of burials.

June 1995- June 1998. Teaching and Research Assistant- Department of Anthropology and Department of Classics, University of Texas at Austin. Assisted with lectures and graded papers for archeology undergraduate classes. Participated in three field seasons at Chersonesos, Ukraine. Devised methodology for ceramics analysis for Site 151 in Chersonesos, directed on-site ceramics lab in Austin and in Ukraine, contributed to Institute publications, and assisted with project planning for 1997 field season in Crimea, Ukraine.

September 1995-June 1996. Archeology Intern- Office of the State Archeologist, Austin, Texas. Worked closely with staff archaeologists compiling data for Texas Military Sites publication, catalogued slides, artifacts, and performed general office tasks. Assisted with excavations of a prehistoric burial site in San Antonio.

RESEARCH, TESTING AND DATA RECOVERY PROJECTS:

2011-2012. Tarrant Regional Water District. Excavation of Burials at the Montgomery Hill Cemetery (41NV716): A Post-Bellum African American Cemetery in Navarro County. Principal Investigator overseeing excavation of 25 unmarked graves dating from ca. 1865-1880. Designed and implemented the project and oversaw excavations. Reporting and analysis are ongoing.

2012. Michael Baker Jr., Inc. and Texas Department of Transportation. Montgomery County, Texas. Archeological Testing of 41MQ197. Project manager and Principal Investigator for testing of a late Prehistoric site in Montgomery County, Texas. Testing involved excavation of more than 16 cubic meters and Geoarcheological investigations. Designed and implemented the project, oversaw excavations, and directed report preparation.

2009- 2012. Texas Department of Transportation. Archeological Testing of 41DW277, Dewitt County, Texas. Project manager and Principal Investigator for archeological testing of a stratified multi-component prehistoric site in Dewitt County. Designed and implemented the project, oversaw excavations, and directed report preparation.

2009- City of Austin. Data Recovery at the Vara Daniel Site, 41TV1364. Co-Principal Investigator for data recovery of the Paleoindian component of a stratified multi-component site. Involved in project design, planning, implementation, and reporting. Also responsible for public outreach.

2008-2009- Fort Worth Corps of Engineers. Data Recovery at Sites 41BX254, 41BX256 and 41BX1628 along the San Antonio River, Bexar County, Texas. Co-Principal Investigator for data recovery of three stratified multi-component prehistoric sites along the San Antonio River. Involved in project design, planning, implementation, and reporting.

2007- Texas Department of Transportation. Archeological Testing of the Engstrand Well, Williamson County. Project manager and Project archeologist for archeological testing of a historic well in Williamson County. Designed implemented, conducted research, directed investigations and co-authored report.

2005-2007- Houston Independent School District. Archeological Testing of the Gregory Lincoln/HSPVA 4th Ward Property. Principal Investigator for archeological testing at a 16-acre site in downtown Houston. The project involved extensive archival research in advance of testing of domestic and commercial remains in a historically African American neighborhood at the edge of Houston's Freedmen's Town. The project also involved extensive testing for potential burials.

2006- City of Austin. Archeological Survey of the Mexican American Cultural Center
Principal Investigator for archeological survey in Downtown Austin. The project required intensive archival research in advance of survey. The survey documented remains of early twentieth century residences and the City of Austin's early twentieth century street and bridge department industrial facilities.

2005-2006- TxDOT/Kennedy Consulting, Inc.. Project Archeologist for testing at Site 41CC312. Ms. Feit's involvement included research design development, pre-field planning, investigations, and report writing.

2003-2004- Texas Parks and Wildlife. San Jacinto Battleground Restoration Project- Phase I, Harris County, Texas. Directed research investigations into the location of two roads leading into the San Jacinto Battlefield. This interdisciplinary project involved archival research, GIS mapping using a variety of historical and modern maps, sketches and aerial photography, and physical survey to plot roads and historical features on the modern landscape. Also served as assistant project manager and field director for metal detector survey of private properties adjacent to the park.

2001- Texas Parks and Wildlife. Battleground Trail Project- Archeological Testing of Site 41HR865. Harris County, Texas. Co-Project Director for test excavations of an historic debris scatter on the San Jacinto Battlefield/Monument State Historical Park.

2003-2004- Chambers County. Archeological Testing at Fort Anahuac-41CH226, Anahuac, Texas. Principal Investigator and Project Manager for two phases of testing investigations of an 1830s Mexican fort in Anahuac Park. This NRHP-registered property was the site of the first armed skirmish leading to the Texas Revolution. Ms. Feit also produced and implemented a Cultural Resources Management Plan for the park as part of this project.

1999-2002- City of Austin/Morton & Mackey. Survey and Testing Investigations of Historic Guy Town, Austin, Texas. Project Archeologist for excavation of five city lots pertaining to Austin's red light district. The multidisciplinary project involved archival research, HABS assessment, and archeological testing.

2000-2002- City of Austin/Landmark Organization. Hilton Hotel Project, Dickinson-Hannig House. Austin, Texas. Project Archeologist, directing excavations on two city lots pertaining to an 1850s occupation, and Alamo survivor, Susanna Dickinson. The multidisciplinary project involved archival research, HABS assessment, and archeological testing.

1999- City of Austin. Archeological Testing of Blocks 33 and 34 in the City of Austin. Crew Chief for survey and testing of two city blocks. The project documented numerous historical features pertaining to nineteenth century Austin.

1998-2000- Travis County Transportation and Natural Resources. Data Recovery at Toyah Bluff. Crew chief and post-field Project Archeologist for data recovery of a Late Prehistoric occupation site (41TV441). Work included field direction and management, report writing and ceramic analysis.

1998- U.S. Housing Authority. Cemetery Removal at Allen Parkway Village, Houston, Texas. Field Technician for burial removal at a nineteenth and early twentieth century African American Cemetery.

1995- City of Brackettville. Archeological Survey and Testing along a proposed wastewater line in Fort Clark, Kinney County, Texas. Project involved testing at three prehistoric sites and one historic Buffalo Soldier dwelling.

SURVEYS AND MONITORING:

2012- Michael Baker Jr.- Archeological Survey of Three Segments of the Grand Parkway Project in Harris and Montgomery Counties, Texas. Principal Investigator for 36 miles of survey for a new location roadway. The project also involved NRHP-testing at Site 41MQ197 in Montgomery County.

2012- CP&Y/ODOT- Archeological Survey for a Proposed Bridge Replacement along SH 79 Across the Red River in Clay County, Texas and Jefferson County, Oklahoma. Principal Investigator for two mile survey and proposed bridge replacement.

2011- HDR, Inc.- Archeological Survey of SH 360 in Tarrant, Ellis and Johnson Counties, Texas. Principal Investigator for nine mile survey of new location roadway. Survey documented two twentieth century archeological sites.

2011- TxDOT- Archeological Survey along FM 2214 in Eastland County, Texas. Principal Investigator for five mile survey of proposed road expansion.

2011- CP&Y, Inc.- Archeological Survey along SH 76 Garvin and McLain Counties Oklahoma. Principal Investigator for survey along eight mile segment of SH 76. Survey documented no new sites.

2011- CH2MHill- Cultural Resources Survey of Zink Lake in Tulsa, Oklahoma. Principal Investigator for cultural resources survey of proposed improvements to Zink Lake in the City of Tulsa. Resources evaluated included an early twentieth century railroad bridge.

2011- TxDOT- Archeological Survey of Detention Ponds and Mitigation Sites along FM 1464 in Sugar Land, Fort Bend County, Texas. Principal Investigator for survey of approximately 14 acres set aside for detention ponds and mitigation areas. Survey documented one new twentieth century archeological site.

2010- TxDOT- Archeological Survey of Two Yoakum District Bridges, Austin and Jackson Counties, Texas. Principal Investigator for survey in advance of two bridge replacements. Survey documented no new resources.

2010- HDR, Inc.- Archeological Survey of a Solar Array Site in Lampasas, Lampasas County, Texas. Principal Investigator for four acre site proposed for solar array in the City of Lampasas. Survey documented no new resources.

2010 Civil Associates, Inc.- Archeological Survey along FM 720, Denton County, Texas. Principal Investigator for survey along five mile segment in Denton County, Texas. Survey documented no new resources.

2010- CP&Y, Inc.- Archeological Survey along Loop 288 Denton County Texas. Principal Investigator for eight mile survey of new location roadway in Denton County, Texas. Survey documented no new resources.

2010- Baer Engineering, Inc.- Archeological Survey of the Green Water Treatment Plant Site in the City of Austin, Travis County, Texas. Principal Investigator for survey of two downtown blocks in the in the City of Austin. Project included detailed archival research and documentation of one new nineteenth century archeological site.

2010- TxDOT- Archeological Survey and Limited Testing along SH 195 in Williamson County. Principal Investigator for archeological survey along 20 miles of new location and expansion of SH 195. The project included archival research and limited testing of one nineteenth century archeological site and documentation of eight additional historic and prehistoric archeological sites.

2010- TXDOT- Marine Archeological Survey of the Red River at SH 37, McCurtain County, Oklahoma. Project Manager for marine survey of the Red River at SH 37. Survey documented no new resources.

2010- Jacobs Engineering- Archeological Survey along FM 1431- the Hines Tessera Development Travis County Texas. Principal Investigator for proposed expansion along one mile segment in Travis County. The survey documented two new sites, one historic and one prehistoric lithic scatter.

2009-2010- ODOT/CPY, Inc.- Archeological Survey of Carpenter's Bluff, Grayson County Texas and Bryan County Oklahoma. Principal Investigator for bridge replacement over the Red River. Survey documented no new resources.

2009- LTRA Engineers- Archeological Survey of Eight Denton County Bridges, Denton County, Texas. Principal Investigator for survey of seven bridge replacements in Denton County. Survey documented no new resources.

2009-2010-TxDOT- Archeological Survey Along SH 35 in Copano Bay, Aransas County Texas. Principal Investigator for a proposed causeway replacement over Copano Bay. Served as PI for terrestrial portion of the survey and project manager for two phases of marine survey in the bay.

2009- TxDOT/Michael Baker Corporation- Archeological Reevaluation along FM 865 from Beltway 8 to FM 518 in Brazoria County, Texas. Principal Investigator for survey of additional right of way along FM 865 in Pearland, Texas.

2009/2010- City Of Austin/Baer Engineering. S. IH 35 Water/Wastewater Program Project. Principal Investigator for 17 mile survey in southeast Travis County.

2009- San Antonio Water System (SAWS). Archeological Survey of SAWS' Medio Creek Recycled Water line, San Antonio, Texas. Principal Investigator for 4.8 mile water line.

2007-2009- Cox|McLain Environmental Consulting/Brazos Electrical Power Cooperative. Archeological Surveys in Various North Texas Counties. Principal Investigator for electrical transmission substation surveys in McLennan, Ellis, Navasota, Robertson, and Stephens Counties.

2008- San Antonio Water System (SAWS). Archeological Survey in San Antonio's HemisFair Park. Principal Investigator for proposed condensate line to be installed in historic downtown San Antonio.

2008- TxDOT/Michael Baker Corporation- Archeological Survey of SH 35 from IH 45 to Bellfort in Houston. Principal Investigator for proposed tollway construction in Houston, Texas.

2008- TxDOT/Turner, Collie, and Braden, Inc.- Archeological Survey along SH 99 from Katy to Sugar Land in Harris and Fort Bend County. Principal Investigator for road expansion survey.

2008- Oklahoma DOT/Chiang Patel & Yerby- Archeological Survey for NW122nd Street in Oklahoma City. Principal Investigator for road expansion survey in Oklahoma City.

2008- Oklahoma DOT/Chiang Patel & Yerby- Archeological Survey for SH 36 in Cotton County, Oklahoma. Principal Investigator for road expansion survey in Southern Oklahoma. Survey recorded two historic-age sites.

2008- Texas Parks and Wildlife Department- Archeological Survey of Village Creek State Park, Hardin County, Texas. Principal Investigator for 1090-acre survey of Village Creek State Park near Beaumont, Texas.

2008- City of Austin. Archeological Survey of the Waterloo Park and Waller Beach, Travis County, Texas. Principal Investigator for archeological survey in Downtown Austin. The project required intensive archival research in advance of survey. The survey documented remains of early twentieth century residences in Waterloo Park.

2008- Cox|McLain Environmental Consulting. City of Kermit Wastewater Treatment Plant. Principal Investigator for 250 acre survey in Winkler, County, Texas. The project documented one new prehistoric site.

2008 – Teague, Nall & Perkins. Windhaven Boulevard Survey. Principal Investigator for archeological survey in areas of proposed right of way expansion and new location roadway in Dallas County, Texas.

2008- HDR, Inc. Archeological Survey along US 385 in Crane and Upton Counties. Principal Investigator for archeological survey in areas of proposed right of way expansion along a 21-mile section of road.

2007-2008 Boeing Corporation. Archeological Survey of Secure Border Initiative Locations in the Nogales and Ajo Sector, Arizona. Field archeologist for inspections and assessments of 1-acre communications tower locations in southern Arizona.

2007- Professional Engineering Design/TxDOT San Antonio District. Archeological Survey of East Metate Creek. Principal Investigator for archeological survey for a proposed bridge expansion across Metate Creek in Atascosa County.

2007- City of Pleasanton. Archeological Survey of the Pleasanton Wastewater Pipeline. Principal Investigator for a three-mile wastewater line in Atascosa County. Involved in all project phases including design coordination, fieldwork and reporting.

2007- Texas Department of Transportation. Archeological Survey Along FM1044 from IH35 to Weil Rd. Principal Investigator for archeological survey in areas of proposed right of way expansion and new location roadway.

2007- Texas Department of Transportation. Archeological Survey for a Proposed Office Site in Medina County. _Principal Investigator for a 12-acre office site. Involved in all project phases including design coordination, fieldwork and reporting.

2007- Texas Department of Transportation, Laredo District. Archeological Survey of Cuatro Vientos Road, Webb County, Texas. Principal Investigator for survey of four miles of proposed new location roadway.

2007- Texas Department of Transportation, Odessa District. Archeological Survey of SH 349 in Midland and Martin Counties, Texas. Project Archeologist for survey of forty miles of proposed road expansion.

2006- Brazos Electric Power Cooperative. Archeological Monitoring at Site 41BL95, Cedar Valley. Project director for archeological monitoring at site 41BL95. Investigations involved extensive agency coordination and excavation of one 1x1 meter test unit for purposes of assessing archeological deposits at a prehistoric campsite.

2006- Targa Resources, Inc. Archeological Survey of the Proposed Targa North Shore Gas Pipeline Project in Young County, Texas. Principal Investigator for seven-mile natural gas pipeline. Involved in all project phases including design coordination, fieldwork and reporting.

2006- Texas Department of Transportation, Pharr District. Archeological Survey of the US 83 Reliever Route from Roma to Rio Grande City in Starr County, Texas. Principal Investigator for survey of 11 miles of new location roadway.

2006- City of Laredo. Archeological Survey of Chacon Creek Wastewater Line Extension. Principal Investigator for five mile waterline survey. The survey documented two prehistoric sites.

2006- Travis County Transportation and Natural Resources. Archeological survey of the Travis County Eastside Service Center. Principal Investigator for survey of a 120-acre tract in eastern Travis County. The project documented one new prehistoric archeological site.

2006- Texas Department of Transportation., Austin District. Archeological Survey of US 290 from Paige to Giddings in Bastrop and Lee Counties. Principal Investigator for archeological survey in areas of proposed right of way expansion for US 290. The survey recorded two new prehistoric sites, 41BP813 and 41BP814.

2006- City of Austin. Archeological Survey of the Gilleland Basin-North Austin Wastewater Interceptor in Manor, Texas. Principal Investigator for a one-mile water interceptor. Involved in all project phases including design coordination, fieldwork and reporting.

2006- Chambers County Economic Development Office. Chambers County Park Survey. Principal Investigator and Project Manager for a project that involved archeological survey of three parks in Chambers County—Double Bayou Park, Job Beason Park, and Hugo Point Park.

2005- Bell County WCID and Lockwood, Andrews and Newnam, Inc. Archeological Survey of the Bell County Effluent Pipeline from South Bell County WWTP to Nolan Creek. Principal Investigator for 4.5-mile water transmission pipeline. Involved in all project phases, including design coordination, fieldwork and reporting.

2005- Texas Department of Transportation, Paris District. Archeological Survey of US 69 from Greenville to Lone Oak. Principal Investigator for 11 miles of road expansion.

2005- City of Brownsville. Archeological Survey of the Texas Historic Battlefield Trails Southern Pacific Linear Park, Brownsville, Texas. Principal Investigator for survey of proposed 4-mile park trail.

2005- Brazos Electric Power Cooperative, Archeological survey for a new transmission line in Parker and Palo Pinto Counties. Principal Investigator for survey of new location electrical transmission line extending approximately 40 miles.

2005- Texas Department of Transportation, Fort Worth District. Archeological Survey for Lake Ridge Parkway. Principal Investigator for survey of two miles of new location roadway.

2004-7- TxDOT/Lone Star Infrastructure. SH130 Environmental Management. Oversaw survey, analysis and archival research of selected historic archeological sites in eastern Travis, Caldwell, and Guadalupe Counties. Developed a detailed predictive model for archeological site types and patterning for Travis, Caldwell and Guadalupe Counties that submitted to TxDOT and the THC for coordination.

2004- TxDOT. SH130-IH10 Interchange Alternatives, Guadalupe County Texas. Created probability study to determine the potential occurrence of archeological sites, then served as Principal Investigator for an intensive survey of high probability areas for two roadway alternatives. Assisted planning team in alternatives assessment.

2004- Kinder Morgan. Archeological Survey of the Sand Hill Pipeline, Travis County, Texas. Principal Investigator for survey of six mile gas pipeline.

2004- Doucett & Associates. Archeological Survey for a Proposed Retail Center in Williamson County, Texas. Principal Investigator for 20-acre survey for a proposed Walmart. The project documented one historic period farmstead site.

2004- American Electric Power- Roma to Frontera Archeological Survey, Starr and Hidalgo Counties, Texas. Principal Investigator for a 40-mile long transmission line survey along the US-

Mexico border. Seven prehistoric sites were documented and recorded. Ms. Feit worked closely with AEP to develop avoidance strategies for NRHP-eligible sites.

2003- City of Lubbock. McAlister Park Geoarcheological Survey, Lubbock, Texas. Principal Investigator and Project Manager for a geoarcheological survey of a playa lake in a proposed city park in Lubbock Texas.

2003- San Antonio Water System, Archeological Survey of the Dos Rios Water Recycling Center in Bexar County, Texas. Principal Investigator for an archeological survey in advance of bank stabilization at a water recycling center along the Medina River.

2003 TxDOT. SH45 Southeast Archeological Survey, Travis County Texas.

Created probability study to determine the potential occurrence of archeological sites, then served as Principal Investigator for an intensive survey of high probability areas for three roadway alternatives.

2003-2007- Austin Clean Water Program, various engineers, Travis County Texas. Ms. Feit served as lead archeological liaison and Principal Investigator for City of Austin environmental assessments performed prior to sewer line upgrades. Conducted archeological surveys in support of numerous projects.

2002- Texas Parks and Wildlife-Hog Bayou Moist Soils Unit Survey. Calhoun County, Texas. Principal Investigator for archeological survey for proposed wetlands mitigation areas within the Guadalupe Delta Wildlife Area. The project relocated and reassessed Site 41CL94 a late prehistoric shell midden.

2002-2003- TxDOT. Archeological Survey of SH155 Frankston-Pert, Anderson County, Texas. Principal Investigator for archeological survey of proposed 11-mile roadway expansion area in northeast Texas.

2002- Archeological Survey of Proposed Channelization of Dry Branch Creek, Williamson County, Texas. Principal Investigator for a proposed creek channelization along Dry Branch Creek.

2001-2002 TxDOT. George Bush Turnpike Reconnaissance Survey. Dallas County, Texas. Principal Investigator for a reconnaissance survey of three reported sites located in the proposed George Bush Turnpike right-of-way.

2001 TxDOT. Loop 1 Survey Investigations. Travis and Williamson County Texas. Principal Investigator for 280-acre roadway survey. The survey documented four historic period farmstead sites and two prehistoric lithic scatters.

2001- City of Round Rock. Archeological Survey of Arterial B Roadway. Principal Investigator for survey of new location roadway.

2001- Texas Parks and Wildlife. Survey of Lake Houston State Park. Project director for the survey of proposed water lines in Lake Houston State Park in Montgomery County, Texas.

2000-2001- Williamson County. Southwest Regional Williamson County Park Survey. Williamson, County Texas. Principal Investigator for survey of an 800-acre park site in Williamson County, Texas. The survey documented three prehistoric sites, and recommended avoidance for two of those sites.

2000- San Antonio Water System. Reconnaissance Survey, Bexar County, Texas. Principal Investigator for a reconnaissance survey of a sixteen-mile water pipeline in southern Bexar County.

2000- City of Round Rock. Archeological Survey Along Chandler Creek, Williamson County, Texas. Project Archeologist for survey of a proposed wastewater line.

2000- City of Georgetown. Pecan Branch Wastewater Treatment Plant Survey. Georgetown, Texas. Principal Investigator on a survey of 46 acres along Pecan Branch and Berry Creek in Williamson County, Texas.

2000- Parkhill, Smith & Cooper. Archeological Survey at Yellowhouse Draw, Lubbock, Texas. Project Archeologist for survey of proposed storm sewer.

1999- Marchbanks Engineering- Rio Hondo Water Treatment Plant, Cameron County, Texas. Project archeologist for intensive survey of a 25-acre water treatment plant site in Rio Hondo.

1999- Archeological Survey of Lohman's Crossing Road, Travis County, Texas. Crew Chief for survey of new location roadway.

1999- Survey Investigations Along FM 1431 and Cottonwood Creek - Cedar Park, Texas. Project archeologist for survey of water/wastewater pipeline.

1999- TxDOT/Carter-Burgess, Archeological Survey of SH 121 Toll Road in Fort Worth, Texas. Crew Chief for survey of new location roadway.

1998- Maverick County Landfill Survey, Maverick County, Texas. Project archeologist for 250-acre landfill site along the Texas-Mexico border south of Eagle Pass, Texas. The survey consisted of extensive shovel testing and backhoe trenching, documenting three prehistoric sites.

1997- City of Lampasas, Archeological Survey at Hanna Springs Park, Lampasas County, Texas. Crew chief for archeological survey and limited testing of a historic-period hot springs spa.

POPULAR AND SCHOLARLY JOURNAL PUBLICATIONS:

1999-present. Regular contributor to the *Austin Chronicle* Cuisines and Arts section

2008 Contextualizing Material Culture: Some Thoughts on an African American Community in Houston's 4th Ward in the Early 20th Century, co-authored with Bradford M. Jones. In *Bulletin of Texas Archeology*, October 2008.

2007 A Story of Freedom, *American Archaeology Magazine*, Autumn 2007

- 2005 Book review of *Under Four Flags: History and Archeology of North Loop One, Travis County, Texas*, by John W. Clark. In *Bulletin of the Texas Archeological Society*, Vol. 76
- 2003 Peas on Earth. In *Saveur Magazine*, Vol. 71, December 2003, pp.17-18
- 2003 Defining the Caddoan Culture. In *American Archaeology Magazine*, Vol. 7 No. 1, Spring 2003
- 2002 Urban Secrets Revealed. In *Texas Heritage Magazine*, Fall 2002
- 2000 Archeological Investigations in a Nineteenth Century Neighborhood. In *Current Archeology in Texas*, Vol. 2 No. 2
- 1999 Restaurant reviews published at San Antonio citysearch.com

CRM PUBLICATIONS- RESEARCH, TESTING, AND DATA RECOVERY REPORTS:

- Bonine, Mindy, Rachel Feit and Antonio Padilla
2012 *Changing Lifeways Along the Guadalupe Basin in South Texas. The Results of National Register Testing of a Stratified Multicomponent Site (41DW277) in DeWitt County, Texas.* AmaTerra Environmental, Inc., Austin.
- Padilla, Antonio E. and David L. Nickels (Rachel Feit, contributor)
2010 *Archaeological Data Recovery on Three Sites along the San Antonio River, Bexar County, Texas.* Ecological Communications Corporation, Austin.
- Nickels, David L., Mason D. Miller and W. Nicholas Trierweiler (Rachel Feit, contributor)
2010 *Archeological Excavation of a Deeply Buried Paleoindian Component at the Vara Daniel Site (41TV1364), Travis County, Texas.* Ecological Communications Corporation, Austin.
- Feit, Rachel, Bradford M. Jones and Mason D. Miller
2007 *A Lotta People Have Histories Here: History and Archeology of Houston's Vanishing Freedmen's Town.* Archeology Series No. 184. Hicks & Company, Austin.
- Feit, Rachel and Bradford M. Jones
2007 *Archeological Testing of the Engstrand Well, Williamson County, Texas.* Archeology Series No. 190. Hicks & Company, Austin.
- Feit, Rachel, and Bradford M. Jones
2006 *An Archeological Inquiry into Austin's Daily Life and City Services at the Turn of the Twentieth Century: Archeological Survey of the Mexican American Cultural Center in Downtown Austin, Travis County, Texas.* Archeology Series No. 165. Hicks & Company, Austin.
- Feit, Rachel, Brian King, Bradford Jones and Robert Lassen
2006 *Archeological Testing of Prehistoric Sites 41CC311 and 41CC312, Concho County, Texas.* Archeology Series No. 160. Hicks & Company, Austin.
- Feit, Rachel and John W. Clark

2004 *Archeology and History at Fort Anahuac: Results of the 2003 Season Excavation in Chambers County, Texas*. Archeology Series No. 132. Hicks & Company, Austin.

Karbula, J.W., J.H. Jarvis and R. Feit

2004 *Metal Detecting Along the Path of the Mexican Retreat at San Jacinto*. Archeology Series No. 124. Hicks & Company, Austin.

Rachel Feit, John Clark, James Karbula, Jonathan Jarvis

2004 *Archeological and Historical Research at the San Jacinto Battleground Volume I, The Roads to San Jacinto; Research Investigations for the Harrisburg-Lynchburg and New Washington Roads*. Hicks & Company, Austin.

Feit, Rachel and John W. Clark

2003 *Fort Anahuac: Archeological Testing at a Mexican Era Fort in Chambers County, Texas*. Archeology Series No. 115. Hicks & Company, Austin.

Feit, R, J.W. Karbula, J. Clark and S. C. Caran

2003 *Boarding Houses, Bar Room and Brothels- Life in Vice-District: Archeological Investigations of A Changing Urban Neighborhood in Austin, Texas*. Two Volumes. Archeology Series No. 104. Hicks & Company, Austin.

Feit, Rachel and John W. Clark

2003 *Managing Cultural Resources at Fort Anahuac Park: A Management Plan*. Hicks & Company, Austin.

Feit, Rachel and John Clark

2002 *Archeological and Historical Research Investigations on the Historic Hannig-Dickinson House and the Hedgecoxe House in Austin, Texas*. Archeology Series No. 109. Hicks & Company, Austin.

Feit, Rachel, John Andrew Moreman and John W. Clark

2002 *Archeological Test Excavations at Site 41HR865: An Historic Debris Scatter at the San Jacinto Battlefield/Monument State Historic Park*. Archeology Series No. 105. Hicks & Company, Austin.

Karbula, James W., Rachel Feit and T. G. Griffith

2001 *Changing Perspectives on the Toyah: Data Recovery Investigations of 41TV441, The Toyah Bluff Site, Travis County, Texas*. Archeology Series No. 94. Hicks & Company, Austin.

Seibel, Scott, Rachel Feit and Susan Dial

2000 *Robert E. Johnson State Office Building Project: A Compilation Volume for Areas A, B and C*. Hicks & Company, Austin.

Dial, S.W. and J.W. Karbula, eds.

2000 *Archeological Investigations of Blocks 33 and 34: The Austin Convention Center Expansion Project*. Archeology Series No. 73 Hicks & Company, Austin.

CRM PUBLICATIONS- SURVEY REPORTS:

Padilla, Antonio, Rachel Feit, and Matthew Carter

Archeological Survey of SH 360 from Green Oaks Boulevard to US 2878 in Tarrant, Ellis and Johnson Counties, Texas. Ecological Communications Corporation, Austin.

Miller, Mason and Rachel Feit

Interim Report for Archeological Survey along FM 2214 from in Eastland County, Texas. Ecological Communications Corporation, Austin.

Feit, Rachel and Kurt Korfmacher

Phase 1 Cultural Resources Report for the Arkansas River Zink Lake Improvements Project in Tulsa, Tulsa County, Oklahoma. Ecological Communications Corporation, Austin.

Feit, Rachel and Alex Voellinger

Archeological Survey of Two Detention Ponds and a Wetland Mitigation Site along FM 1464 in Sugar Land, Fort Bend County, Texas. Ecological Communications Corporation, Austin.

Darnell, Bruce and Rachel Feit

Archeological Survey of Two Yoakum District Bridges, Austin and Jackson Counties, Texas. Ecological Communications Corporation, Austin.

Dowling, Jon J. Rachel Feit and Daniel J. Rose

Archeological Survey of Proposed Loop 288 from IH 35E North to IH 35E at Vintage Boulevard, Denton County Texas. Ecological Communications Corporation, Austin.

Feit, Rachel and Emory Worrell

Archeological Survey of the Green Water Treatment Plant Site in the City of Austin, Travis County, Texas. Ecological Communications Corporation, Austin.

Anthony, Dana and Rachel Feit

Archeological Survey along SH 195 from IH 35 North to .8 miles South of the Bell County Line in Williamson County, Texas . Ecological Communications Corporation, Austin.

Dowling Jon J. and Rachel Feit

Archeological Survey along a Segment of FM 1431 in Lago Vista, Travis County, Texas. Ecological Communications Corporation, Austin.

Dowling, Jon J. and Rachel Feit

Archeological Survey of Carpenter's Bluff, Grayson County Texas and Bryan County Oklahoma. Ecological Communications Corporation, Austin.

Dowling, Jon J. and Rachel Feit

An Archeological Survey of Eight Off-System Bridges, Denton County, Texas. Ecological Communications Corporation, Austin.

Enright, Jeffrey, Rachel Feit and Jon J. Dowling
2008 *A Marine and Terrestrial Survey of the Copano Bay Causeway Replacement in Aransas County, Texas.* Ecological Communications Corporation, Austin.

Jones, Richard S., Antonio E. Padilla, W. Nicholas Trierweiler, and Rachel J. Feit
2008 *Cultural Resource Inventory of 878 Acres at Lake B.A. Steinhagen and Lake Sam Rayburn, Jasper, Nacogdoches, and San Augustine Counties, Texas.* Ecological Communications Corporation, Austin

Feit, Rachel
2008 *An Archeological Survey of the Proposed Bridge Replacement Along CR 427 at East Metate Creek.* Ecological Communications Corporation, Austin

Feit, Rachel, David L. Nickels and Richard Jones
2008 *Archeological Survey of Village Creek State Park, Hardin County, Texas.* Ecological Communications Corporation, Austin.

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2008 *Archeological Investigations at Lake Whitney, Bosque, Hill and Johnson Counties, Texas.* Ecological Communications Corporation, Austin.

Nickels, David, and Rachel Feit
2008 *Archeological Survey of the City of Kermit's Proposed Wastewater Treatment Facility in Winkler County, Texas.* Ecological Communications Corporation, Austin.

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2008 *An Archeological Survey along US 385 from Crane to McCamey.* Ecological Communications Corporation, Austin.

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2008 *An Archeological Survey Along Windhaven Parkway, Collin County Texas.* Ecological Communications Corporation, Austin.

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2007 *An Archeological Survey Along US 290 from Paige to Giddings.* Hicks & Company, Austin.

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2007 *Archeological Survey for a Proposed TxDOT Hondo Area Office Site, Medina County, Texas.* Hicks & Company, Austin.

Feit, Rachel and Matthew C. Stotts
2007 *Archeological Survey of FM 1044 Improvements from IH 35 to Weil Road in Comal and Guadalupe Counties, Texas, CSJ 2021-01-009.* Hicks & Company, Austin.

Feit, Rachel, John Campbell, Matthew Stotts, Robert Lassen
2007 *Results of Archeological Investigations of US 183 Improvements from US 183/US 183- A Interchange to SH 29 Williamson County, Texas.* Hicks & Company, Austin.

John Campbell, Rachel Feit, Matthew C. Stotts and Bradford Jones

2007 *Archeological Survey of the Proposed CuatroVientos Roadway From Mangana-Hein Road to US83/Espejo-Molina Road Webb County, Texas.* Hicks & Company, Austin.

Jones, Bradford, Rachel Feit, and Matt Stotts

2007 *Intensive Archeological Survey of the Proposed Expansion of State Highway 349 from Two Miles North of the Martin and Midland County Line to 1.26 Miles South of FM 2052 South of Lamesa, Texas, CSJ# 0380-08-012, 0380-07-018.* Hicks & Company, Austin.

Matthew C. Stotts, Rachel Feit and Mason Miller

2007 *Results of Archeological Investigations of a Proposed Wastewater Line Along Spanish Oak Creek in Williamson County, Texas.* Hicks & Company, Austin.

Brian King & Rachel Feit

2006 *Archeological Survey of the Proposed Targa North Shore Pipeline Project in Young County, Texas.* Hicks & Company, Austin.

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Feit, Rachel and Brian Farabough

2006 *Archeological Survey Investigations at Three Chambers County Parks, Chambers County, Texas.* Hicks & Company, Austin.

Feit, Rachel

2006 *Archeological Survey of the Gilleland Basin-North Austin Wastewater Interceptor in Manor, Texas.* Hicks & Company, Austin.

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2006 *Archeological Survey of the Proposed Eastward Extension of the George Bush Turnpike, Dallas County, Texas.* Hicks & Company, Austin.

King, Brian and Rachel Feit

2006 *Archeological Survey of the Proposed US 83 Reliever Route from Roma to Rio Grande City in Starr County, Texas.* Hicks & Company, Austin.

Miller, Mason and Rachel Feit

2005 *Archeological Survey for US Highway 69 from FM 1570 in Greenville to FM 513 in Lone Oak, Hunt County, Texas.* Hicks & Company, Austin.

Brian King, Rachel Feit

2005 *Archeological Survey of the Proposed Texas Historic Battlefield Trails Southern Pacific Linear Park, Brownsville, Texas.* Hicks & Company, Austin.

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Feit, Rachel and Jonathan H. Jarvis

2004 *Archeological Survey of the Roma to Frontera Electrical Transmission Line, Starr and Hidalgo Counties, Texas.* Hicks & Company, Austin.

Karbula, James W., J. Jarvis, R. Feit, and J. Moreman

2003 *Intensive Archeological Investigations of the Wonderworld Drive Extension: FM3004 in Hays County, Texas.* Hicks & Company, Austin.

Feit, Rachel, John Campbell, Brian King

2004 *Archeological Survey of the Proposed Sand Hill Pipeline for Kinder Morgan in Travis County, Texas.* Hicks & Company, Austin.

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2004 *Archeological Survey of the Proposed Wild Horse Ranch Northwest Wastewater Interceptor Line and Treatment Plant, Travis County, Texas.* Hicks & Company, Austin.

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2004 *An Archeological Survey in Bartholomew Park; Investigations for the City of Austin's Planned Wastewater Line Improvements and Channel Restabilization along Tannehill Creek from Broadmoore to Cameron Roads.* Hicks & Company, Austin.

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2003 *Results of the Archeological Survey for the Eubank Acres Water and Wastewater Improvement Project in Austin, Texas.* Hicks & Company, Austin.

Aiuvalasit, Michael and Rachel Feit

2003 *Upper Tannehill/Lower Fort Branch Sewer Line Upgrade Archeological Survey.* Hicks & Company, Austin.

Aiuvalasit, Michael, S. C. Caran w/contribution by R. Feit

2003 *Results of Geoarcheological Investigations at a Playa Lake in McAlister Park, Lubbock, Texas.* Hicks & Company, Austin.

Campbell, John A., Rachel Feit, Reign Clark, Nesta Anderson, and Julie Adams McClellan

2003 *Archeological Survey of State Highway 155 from Frankston to Pert Anderson County, Texas.* Hicks & Company, Austin.

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2003 *Results of the Loop 1/SH45 Additional Right of Way Archeological Survey in Williamson and Travis Counties, Texas.* Hicks & Company, Austin.

Feit, Rachel, Jonathan Jarvis

2002 *Archeological Survey of the Proposed Channelization of Dry Branch Creek Williamson County, Texas.* Hicks & Company, Austin.

Moreman, J. Andrew, Jonathan H. Jarvis, and Rachel Feit

2002 *Cultural Resource Survey of Proposed Additions to Southwest Regional Williamson County Park.* Hicks & Company, Austin.

Moreman, John A. and Rachel Feit

2002 *Reconnaissance Survey Investigations of the SAWS-ASR Water Transmission Line, Bexar County, Texas.* Hicks & Company, Austin.

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2002 *Intensive Archeological Investigations of the Moist Soil Units Project in the Guadalupe Delta Wildlife Management Area in Calhoun County, Texas.* Hicks & Company, Austin.

Karbula, James W., Tim B. Griffith, Jonathan J. Jarvis, Rachel Feit

2001 *A Cultural Resources Assessment of the Proposed State Highway 45.* Hicks & Company, Austin.

Feit, Rachel and Timothy B. Griffith

2001 *Results of Archeological Survey Investigations for the Loop 1 Project Area.* Hicks & Company, Austin.

Kapanday, Diamond, Rachel Feit, James Karbula

2001 *Archeological Survey of Arterial B Proposed Roadway.* Hicks & Company, Austin.

Feit, Rachel and J Andrew Moreman

2000 *An Intensive Survey of the Proposed Site of the Southwest Regional Williamson County Park.* Hicks & Company, Austin.

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2000 *A Cultural Resource Survey on the San Gabriel Terrace: Investigations at the Proposed Pecan Branch Wastewater Treatment Plant Property.* Hicks & Company, Austin.

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2000 *Results of Survey Investigations for the Proposed Lubbock Storm Sewer in Yellowhouse Draw, Lubbock, Texas.* Hicks & Company, Austin.

Griffith, Timothy B. and Rachel Feit

2000 *A Cultural Resources Assessment of the Proposed Alignment for a New Wastewater Pipeline Along Chandler Creek.* Hicks & Company, Austin.

Seibel Scott, James Karbula, Rachel Feit, Susan Dial, and Chris Caran

2000 *Archeological Investigations along the Clear Fork of the Trinity River: Intensive Survey of the SH 121 Project; Tarrant County, Texas.* Hicks & Company, Austin.

Karbula, James, Scott Seibel, Rachel Feit

1999 *Survey Investigations of the Proposed Maverick County Landfill Site, Eagle Pass Texas .* Hicks & Company, Austin.

Feit, Rachel

1999 *Archeological Survey Investigation at the Rio Hondo Water Treatment Plant, Cameron, Texas.* Hicks & Company, Austin.

Feit, Rachel

1999 *Survey Investigations of the Proposed Extension to Lohman's Crossing Road.* Hicks & Company, Austin.

Feit, Rachel and James W. Karbula

1999 *Survey Investigations along FM 1431 and Cottonwood Creek - Cedar Park, Texas.* Hicks & Company, Austin.

CONFERENCE PRESENTATIONS:

January 2011- “Lost in the Flood: The Effects of Town Planning and Expansion in Austin’s Mid-Twentieth Century Urban Neighborhoods.” Paper presented at Society for Historical Archaeology Meeting in Austin, Texas.

January 2010- “Under the Kitchen Floor.” Paper presented at Society for Historical Archaeology Meeting in Jacksonville, Florida.

January 2008- “A Lotta People Have Histories Here.” Paper presented at Society for Historical Archaeology Meeting in Albuquerque, New Mexico.

October 2007- Organized session on African American Archeology in Texas for Texas Archeological Society Meeting in San Antonio, Texas.

April 2007- Organized session entitled *Archaeologies of Urbanism* at the 2007 Society for American Archaeology meeting in Austin, Texas; specific paper delivered entitled “Building the Urban Landscape: the Development of Austin’s Infrastructure.”

March 2006- “Austin Underground: Archeology of the Capital City’s Infrastructure,” paper presented at the Spring meeting of the Council of Texas Archeologists in Austin, Texas.

March, 2005- Organized session entitled, the *Archeology of Terán’s Forts*; specific paper delivered entitled “Archeology and Architecture at Fort Anahuac” at Texas State Historical Association Meeting.

March 2004- “Building a Fort at Anahuac,” paper presented at the Spring meeting of the Council of Texas Archeologists in Austin, Texas.

July 2003- “Preliminary Results of the 2003 Field Season at Anahuac,” presentation given upon invitation at the annual Texas Steward’s Meeting in Austin, Texas.

June 2003- “Stewardship of What, and By Whom?” Co-authored paper presented at the World Archaeological Congress in Washington, D.C.

October 2000- *Archeology in Guy Town, Austin’s Red Light District*- paper presented at the annual Texas Archeological Association Meeting, LaPorte, Texas

PROFESSIONAL MEMBERSHIPS:

Texas Archeological Society (TAS)
Council of Texas Archeologists (CTA), President
Society for Historical Archaeology (SHA)

CERTIFICATIONS / **TRAINING:**

Registered Professional Archeologist (RPA)
OSHA Trench Safety Training, 2006
Practical Project Development and Environmental Documentation for NEPA compliance,
seminar taught by Robert (Jake) Jacobson, March 2000
National Preservation Institute Section 106 seminar, January 2000