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717 TEXAS AVENUE, SUITE 1000
HOUSTON, TX 77002

CALPINE CORPORATION

NYSE CPN May 2, 2012

Alfred Dumaual
U.S. EPA Region 6
Air Permits Section (6PD-R)
1445 Ross Avenue
Dallas, TX 75202

Subject: Deer Park Energy Center, LLC
National Historic Preservation Act/Archeology Report
Re: Greenhouse Gas Permit PSD Application Submitted September 1, 2011

Dear Mr. Dumaual,

Please find enclosed the above referenced NHPA report for the Deer Park Energy Center expansion project. This revised report incorporates an enhanced history of the project area, expanded literature review, and responses to other comments provided by EPA during our April 12, 2012 conference call.

If you have any questions or require additional information, please contact Jaron Bergin in my department at 713-570-4631 or berginj@calpine.com.

Sincerely,

Patrick Blanchard
EHS Director
On Behalf of Deer Park Energy Center, LLC

Enclosure

cc: Larry Moon – Zephyr Environmental
Don Blanton – Blanton & Associates

Blanton & Associates, Inc.

ENVIRONMENTAL CONSULTING • PLANNING • PROJECT MANAGEMENT

ARCHEOLOGICAL SURVEY OF PROPOSED UPGRADES TO THE DEER PARK ENERGY CENTER, HOUSTON, HARRIS COUNTY, TEXAS

by

Brandon S. Young and Maryellen Russo

Principal Investigator: Brandon S. Young

May 2012

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ARCHEOLOGICAL SURVEY OF PROPOSED UPGRADES TO THE DEER PARK ENERGY CENTER

Prepared for

DEER PARK ENERGY CENTER, LLC

By

Blanton & Associates, Inc.

ENVIRONMENTAL CONSULTING • PLANNING • PROJECT MANAGENT

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Brandon S. Young, Principal Investigator

May 2012

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ABSTRACT

On November 1, 2011, Blanton & Associates, Inc., at the request of Deer Park Energy Center, LLC, conducted an intensive archeological survey of a proposed 180 megawatt natural-gas-fired combined-cycle cogeneration unit within the existing 21.3-acre Deer Park Energy Center. The Deer Park Energy Center is on State Highway 225 approximately one mile east of the Sam Houston Tollway in Deer Park, Harris County, Texas. Survey investigations discovered no archeological resources or historic standing structures within or adjacent to the project area and no artifacts were collected. Curation was unnecessary.

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MANAGEMENT SUMMARY

PROJECT TITLE: Archeological Survey of Proposed Upgrades to the Deer Park Energy Center, Houston, Harris County, Texas

PROJECT DESCRIPTION: The project involved an archeological records review and a 100 percent pedestrian archeological survey of the location of a proposed 180 megawatt cogeneration unit within the Deer Park Energy Center. Deer Park Energy Center, LLC is seeking a Greenhouse Gas permit under the Environmental Protection Agency's (EPA) Tailoring Rule authorizing one additional 180 megawatt natural-gas-fired combined-cycle cogeneration unit at the existing location. Because the project would require a Greenhouse Gas permit from the EPA, the project is subject to Section 106 of the National Historic Preservation Act (NHPA).

The Area of Potential Effect (APE) for the project consists of the existing Deer Park Energy Center, which encompasses approximately 21.3 acres. The construction footprint for the proposed cogeneration unit would be 150 x 400-foot (1.38 acres). The APE extends a maximum depth of 50 feet below ground surface for support pilings and 140 feet above ground surface for the proposed cogeneration unit's associated stack.

PROJECT LOCATION: The proposed project area is on State Highway 225 approximately one mile east of the Sam Houston Tollway in Deer Park, Harris County, Texas. The APE is mapped on the *Pasadena, Texas* USGS 7.5-minute topographic quadrangle

TOTAL ACREAGE: Approximately 21.3 acres

DATE OF WORK: November 2, 2011

PURPOSE OF WORK: Blanton & Associates, Inc. assisted the project sponsor in their compliance with Section 106 of the National Historic Preservation Act of 1966 (and subsequent amendments).

PRINCIPAL INVESTIGATOR: Brandon S. Young

PROJECT ARCHEOLOGIST: Joseph M. Sanchez

PROJECT HISTORIAN: Maryellen Russo

NEWLY RECORDED SITES: None

PREVIOUSLY RECORDED SITES: None

COMMENTS: Based on the lack of archeological deposits within the project area and the absence of historic properties eligible for inclusion to the National Register of Historic Places (NRHP), Blanton & Associates, Inc. (B&A) recommends that the proposed project be allowed to proceed as planned without additional investigations.

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INTRODUCTION

On November 2, 2011, Blanton & Associates, Inc., at the request of Deer Park Energy Center, LLC, conducted an intensive archeological survey of a proposed cogeneration unit within the existing Deer Park Energy Center on State Highway 225 approximately one mile east of the Sam Houston Tollway in Deer Park, Harris County, Texas (**Figures 1** and **2**). Deer Park Energy Center LLC is seeking a Greenhouse Gas permit under the Environmental Protection Agency's (EPA) Tailoring Rule authorizing one additional 180 megawatt natural-gas-fired combined-cycle cogeneration unit equipped with a duct-fired heat recovery steam generator at the existing site, which currently consists of four combined-cycle units. The Deer Park Energy Center is located adjacent to a large industrial complex. The proposed unit will be used to supply steam to an on-site steam turbine generator and to the adjacent industrial facility. Electricity generated by the proposed units will be exported to the Texas power market.

The Area of Potential Effect (APE) for the project consists of the existing Deer Park Energy Center, which encompasses approximately 21.3 acres. The construction footprint for the proposed cogeneration unit would be 150 x 400 feet (1.38 acres). The APE extends a maximum depth of 50 feet below ground surface for support pilings and 140 feet above ground surface for the proposed cogeneration units' associated stacks.

Because the project would require a Greenhouse Gas permit from the EPA, the project is subject to the provisions of Section 106 (33 CFR Part 800) of the National Historic Preservation Act (NHPA). The intent of the NHPA is to consider the effects on historic properties by actions that are federally funded or permitted, or which occur on federal property. The act, which created the National Register of Historic Places (NRHP) and the Advisory Council for Historic Preservation (ACHP), states that the ACHP must be afforded the chance to comment when historic properties eligible for inclusion on the NRHP are present in an area affected by federal agency actions or actions funded or permitted by federal agencies. Protection of archeological historic properties under federal law is tied to eligibility for the NRHP, which is determined by site eligibility criteria defined by National Park Service (NPS) rules 36 CFR 60.

The primary intent of the survey was to identify and describe all archeological resources and historic standing structures discovered within the project area, evaluate their eligibility for inclusion to the NRHP, and should significant archeological resources be located, make recommendations for management options, such as avoidance and preservation or further investigations. Investigations were completed by Project Archeologist Joseph M. Sanchez under the direction of Principal Investigator Brandon S. Young and Historian Maryellen Russo. The survey was designed to comply with appropriate archeological survey methods as defined in the Department of the Interior's Standards and Guidelines (NPS 1983), the Guidelines of the Council of Texas Archeologists (CTA) (1987), and survey standards developed by the THC in conjunction with the CTA (THC n.d.).

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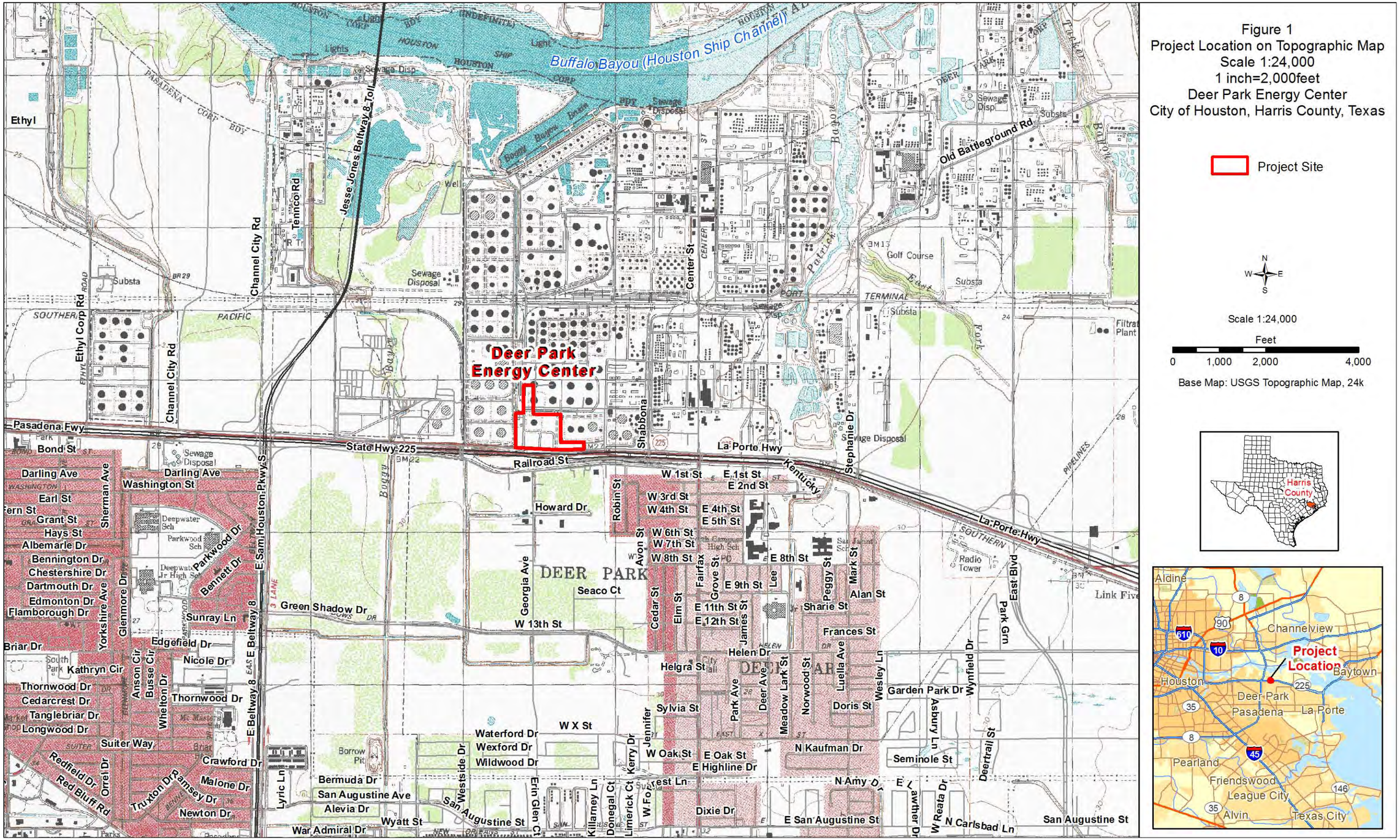

Figure 1
Project Location on Topographic Map
Scale 1:24,000
1 inch=2,000feet
Deer Park Energy Center
City of Houston, Harris County, Texas

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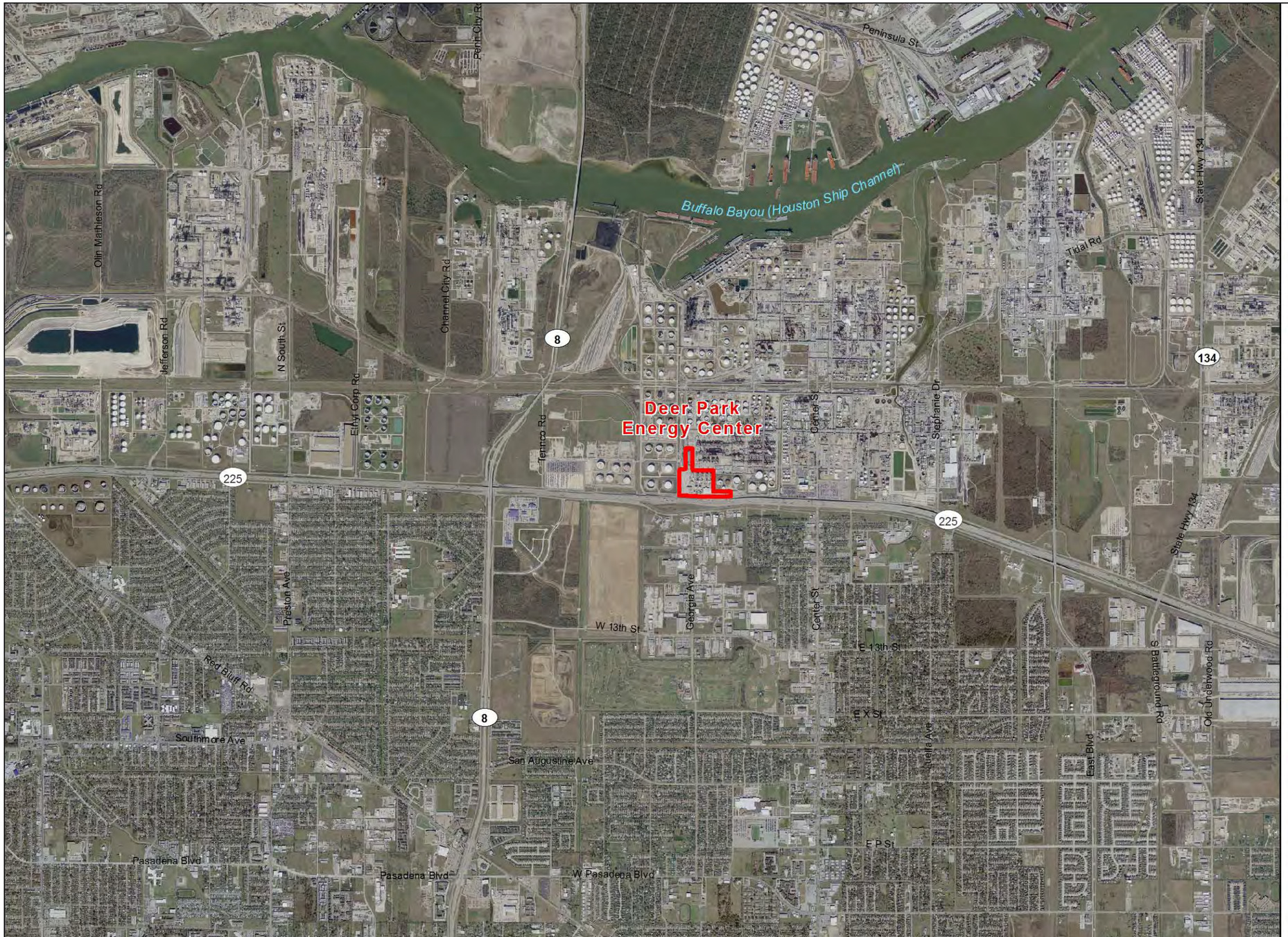

Figure 2
Project Location on Aerial Imagery
Scale 1:36,000
1 inch=3,000feet
Deer Park Energy Center
City of Houston, Harris County, Texas

Project Site

N
W E
S

Scale 1:36,000

Feet
0 1,500 3,000 6,000

Miles
0 0.5 1

Base Map: NAIP Aerial Imagery 2010

ENVIRONMENTAL SETTING

The proposed project is located within the Austroriparian Biotic Province, as described by Blair (1950). This biotic province stretches from the Pineywoods of eastern Texas to the Gulf of Mexico and through the southeastern U.S. to the Atlantic Ocean. It is generally characterized by extensive pine and hardwood forests, swamps, marshes, and other hydric communities (Blair 1950, Hatch et al. 1990) that occur because of sandy soils and high annual rainfall.

GEOLOGY

The project area is underlain by the Pleistocene Beaumont Formation that consists of clay, silt, and sand (Barnes 1982). This formation is approximately 100 feet thick. Given the age of the formation, which predates known human occupation of Texas, there is no potential for it to contain buried archeological resources.

SOILS

Soils within the Deer Park Energy Center are identified as Urban land, which consists of built-up and developed areas where filling and/or grading has occurred (Wheeler 1976:21–22). Those areas have experienced significant disturbances and are not conducive to containing intact archeological resources.

VEGETATION

There is no vegetation within the APE. Where present in adjacent areas however, the natural vegetation of the area is limited to small, scattered, undeveloped tracts. Even the undeveloped tracts show signs of past disturbance. The few patches of woodlands contain native hardwood species such as cedar elm (*Ulmus crassifolia*), post oak (*Quercus stellata*), water oak (*Quercus nigra*), and sugar hackberry (*Celtis pallida*), and non-native species such as Chinese tallow (*Sapium sebiferum*). Common understory species in these woodlands include trifoliate orange (*Poncirus trifoliolata*), yaupon (*Ilex vomitoria*), gum bumelia (*Sideroxylon lanuginosum*), and Chinese privet (*Ligustrum sinense*). There are also a few small patches of improved pastures containing native and introduced grasses such as common carpetgrass (*Axonopus fissifolius*), St. Augustine grass (*Stenotaphrum secundatum*), bahiagrass (*Paspalum notatum*), and smutgrass (*Sporobolus indicus*).

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BACKGROUND RECORDS REVIEW

This chapter provides a review of known archeological and historic resources within a 1,000-meter search radius of the APE, as documented in the Texas Historical Commission's (THC) online Texas Archeological Sites Atlas (TASA). Additionally, this chapter includes a review of tribal coordination data before concluding with a brief overview of the history of the Deer Park Energy Center and adjacent areas.

PREVIOUS INVESTIGATIONS

A review of archeological records available on the TASA was conducted on October 28, 2011 and again on April 13, 2012 to determine the presence/absence of previously recorded archeological sites or historic properties listed on the NRHP within 1,000 meters of the APE. The review revealed that there are no known archeological sites, historic standing structures, or historic properties listed on the NRHP within the 1,000-meter search radius (TASA 2011 and 2012).

TRIBAL COORDINATION DATA

The records review included an examination of the THC's online "Guidelines for Tribal Consultation" (Guidelines) database to determine what tribes have an interest in Harris County, Texas. According to the Guidelines, there are currently 27 tribes with known interests in Texas. Based on a review of available Area of Interest Maps in the Guidelines, the Comanche Nation of Oklahoma and the Tonkawa Tribe of Oklahoma consider Harris County an Area of Interest. There are, however, 19 additional tribes with a known interest in Texas for which Area of Interest Maps are not available and coordination with those tribes may be necessary.

Absentee Shawnee Tribe of Oklahoma
Choctaw Nation of Oklahoma
Comanche Nation of Oklahoma
Jicarilla Apache Nation
Muscogee (Creek) Nation
Osage Nation
Tonkawa Tribe of Oklahoma
Ysleta Del Sur Pueblo of Texas
Alabama-Coushatta Tribe of Texas*
Alabama-Quassarte Tribal Town*
Apache Tribe of Oklahoma*
Caddo Nation*
Cherokee Nation of Oklahoma*
Coushatta Tribe of Louisiana*
The Delaware Nation*
Kialegee Tribal Town*
Kickapoo Traditional Tribe of Texas*
Kickapoo Tribe of Oklahoma*
Kiowa Tribe of Oklahoma*
Mescalero Apache Tribe*
Poarch Band of Creek Indians*
Quapaw Tribe of Oklahoma*
Seminole Nation of Oklahoma*
Thlopthlocco Tribal Town*
Tunica-Biloxi Tribe*
United Keetoowah Band of Cherokee Indians*
Wichita and Affiliated Tribes*

* No Area of Interest Map Available

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OVERVIEW OF THE PROJECT AREA AND THE DEER PARK ENERGY FACILITY

The Deer Park Energy facility is located approximately one mile south side of Buffalo Bayou (also known as the Houston Ship Channel) and directly west of the turning basin. This section outlines the history of the development of the area where the facility is located and concludes with a discussion of the site's potential NRHP eligibility for standing historic structures.

In 1836 Houston was established as the capital of Texas, shortly after the Battle of San Jacinto. Founders of the city promoted its location adjacent to the Buffalo Bayou as a major selling point to potential settlers. After the capital of Texas moved to Austin in 1839, Houston became a commercial center for the surrounding agricultural region. During the mid-nineteenth century, agricultural goods from area farms were transported through Houston to Galveston, located southeast of Houston on the Gulf coast, where they were shipped to domestic and foreign markets. In 1842 the city of Houston established a local port and cleared the bayou of debris, which allowed shallow-draft boats limited navigation and transport on the bayou. In 1853, the Buffalo Bayou, Brazos and Colorado Railway was the first railroad established in the area and, with the establishment of five other railroads within the decade, Houston was the rail center of east Texas by 1861.

By 1869 plans were made to widen and deepen the Buffalo Bayou to Galveston Bay, which would allow larger vessels to enter Houston's port. In 1870 the federal government declared Houston a port of entry and appropriated money for channel improvements. Private investors then organized the Buffalo Bayou Ship Channel Company to improve the channel. Commodore Charles Morgan of the Morgan Steamship Line bought the Buffalo Bayou Ship Channel Company and began to improve the Buffalo Bayou channel, which connected Clinton (on the north side of the Bayou) to Morgan's Point, 20 miles downstream of Houston. The bayou improvements were completed in 1876. The United States government purchased the channel in 1890 and took primary responsibility for its maintenance ("170 Years of Houston History," http://www.houstonhistory.com (accessed 13 April 2012).

Although the improved channel allowed some large vessels to travel to Houston, Galveston remained the main port along the Texas Gulf coast until the 1900 hurricane devastated Galveston. With its many railroads and industrial facilities, Houston began to surpass Galveston as the major commercial and shipping port of the region. Industry east of downtown Houston, near the Port of Houston, grew in the first decades of the twentieth century due to discovery of oil at Spindletop, Texas, northeast of Houston. Shortly thereafter, large oil reserves were found in the area surrounding Houston, and the newly-created Ship Channel provided an avenue for exporting the commodity. As a result, by 1920 multiple oil companies were located in Houston. These companies built offices in the city of Houston, as well as refineries near the Port of Houston, which further diversified the city's economy.

Oil and cotton interests soon began to vie for dominance in the Houston shipping industry. By 1929 Houston had 475 manufacturing plants ("170 Years of Houston History"). These industrial facilities were located near the Port of Houston, along the Buffalo Bayou, and near the railroad lines. The ratio of cotton compresses to oil refineries was almost one-to-one during in this period, showing the increased role of oil by the 1930s.

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Manufacturing began to increase at a great pace in Houston before and during World War II. During the 1930s, Houston became second in the nation in shipping, and by the end of the decade 62 percent of the city's population worked in the petroleum industry or related businesses ("170 Years of Houston History"). Areas surrounding the city were still dependent on agriculture, and continued to support the economy of Houston. With the outbreak of World War II, Houston entered the shipbuilding and national defense industries. Synthetic rubber was mass produced for the first time during the war, and two synthetic rubber plants were located near the Port of Houston. Other industries found in and around Houston included mechanical parts manufacturing, magnesium, steel, and natural gas ("170 Years of Houston History").

After World War II the petrochemical industry continued as a center of activity near the Houston Ship Channel. Cotton, while still an important part of the agricultural economy, was overshadowed by oil and gas production and shipping. Additionally, a new commodity, grain from the Midwest, was shipped from Houston after the war. In order to keep up with increased shipping, the Houston Ship Channel was continually maintained and updated. The US Congress approved plans to further widen and deepen the channel multiple times during the mid-twentieth century. Throughout the twentieth century the Port of Houston adapted to the changing needs of the local industries. For example, container shipping, a common sight today, was introduced at the Port of Houston in the mid-1950s. By the end of the twentieth century, scores of industries moved to Houston, as the Houston Ship Channel, Port of Houston, and the vast railroad network made the city one of the largest and busiest shipping centers in the US.

Operations at the Deer Park Energy center began June 2003. Aerial photographs dated 1944 through the late 1990s (available from the Google Earth, U.S. Army Corps of Engineers, and www.historic aerials.com) show that the location where the facility is currently located was an empty field until sometime in the 1970s, and then it was a parking lot from at least 1978 to 2002. The surrounding properties since the 1960s have been industrial, with several dozen large storage tanks and railroad yards blanketing the landscape. Comparing the historic aerial photographs with current aerial photographs, it appears that the majority of the properties surrounding the Deer Park facility were only storage facilities and in recent years, refining and other industrial processing facilities have been constructed in the area.

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METHODS

Investigations consisted of an intensive 100 percent pedestrian survey of sufficient intensity to determine the nature, extent, and the significance of all archeological resources discovered within the APE. The survey adhered to THC survey standards (n.d.), as well as the guidelines of the Council of Texas Archeologists (CTA 1987) and the Secretary of the Interior's Standards and Guidelines (NPS 1983). Field investigations were thoroughly documented with digital photography.

Surface investigations consisted of a systematic examination of the ground surface looking for surficial archeological materials. CTA (1987) and THC (n.d.) survey standards recommend that surface surveys be augmented by systematic shovel testing or backhoe trenching as appropriate to prospect for buried archeological materials in locations where surface visibility falls below 30 percent. As the proposed construction area is graveled and currently used as a lay down area for pipe and equipment (as well as being previously disturbed and graded), subsurface investigations were not warranted and investigations were limited to surface examinations of the APE.

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RESULTS OF INVESTIGATIONS

Intensive archeological survey of the APE discovered no archeological resources or historic standing structures (**Figures 3** and **4**). Investigations revealed a modern industrial facility surrounded by oil and gas refineries (**Figure 5**). Given the extensive development and existing gravel covering the proposed construction area, subsurface investigations throughout the APE were not warranted.

In conjunction with existing geologic and soil conditions, the survey indicated that there was no potential for the area to contain archeological resources based upon previous disturbances from historic and modern land use, as well as the presence of existing infrastructure and facilities. Based on these data, it is the opinion of B&A that there is no potential for the APE to contain previously unidentified historic properties eligible for inclusion to the NRHP.

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Figure 3
Project Location on Aerial Imagery
Scale 1:12,000
1 inch=1,000feet
Deer Park Energy Center
City of Houston, Harris County, Texas

Project Site

N
W E
S

Scale 1:12,000

Feet
0 500 1,000 2,000

Base Map: NAIP Aerial Imagery 2010

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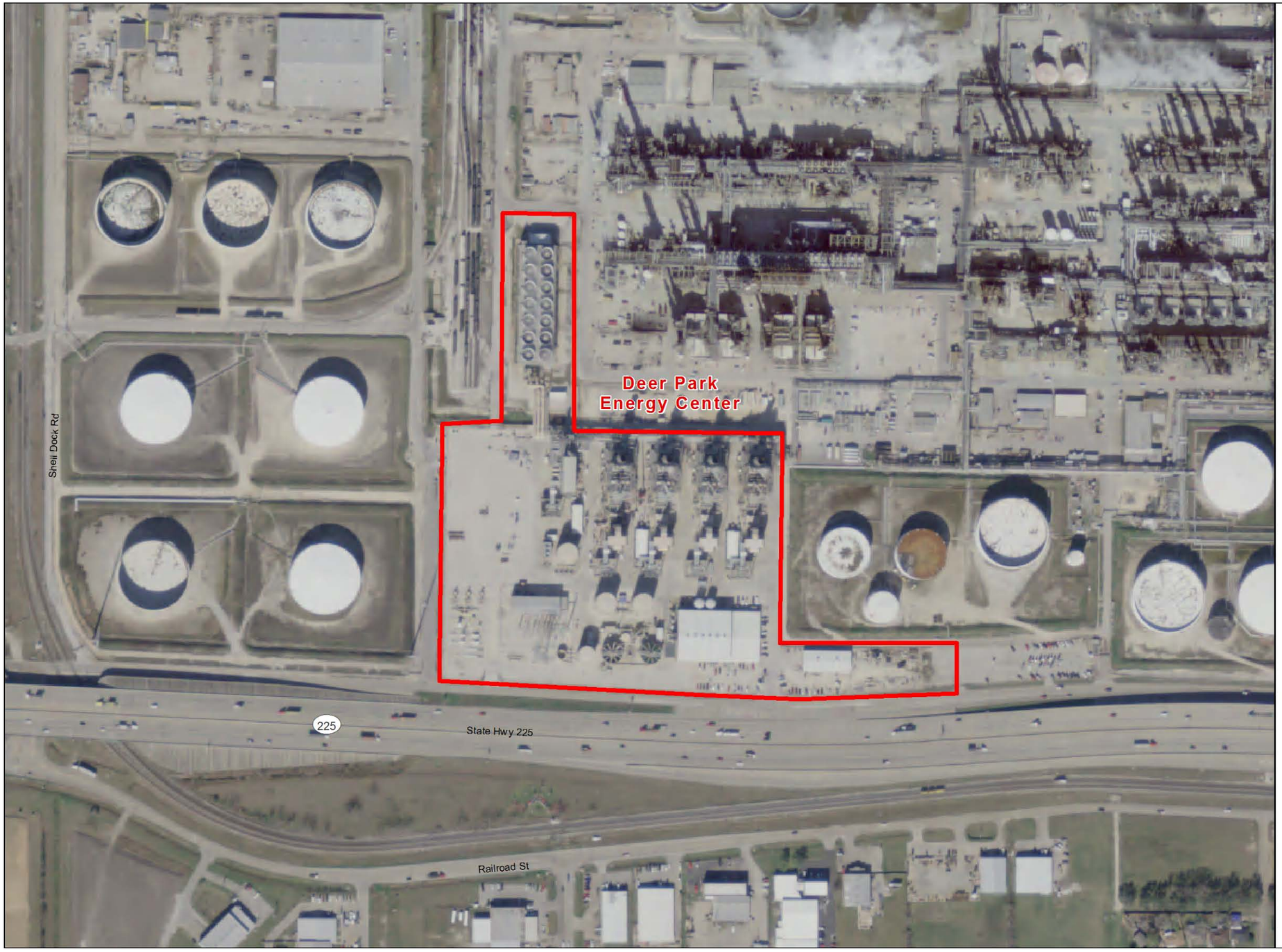

Figure 4
Project Location on Aerial Imagery
Scale 1:3,600
1 inch=300feet
Deer Park Energy Center
City of Houston, Harris County, Texas

Project Site

N
W E
S

Scale 1:3,600

Feet
0 150 300 600

Base Map: NAIP Aerial Imagery 2010

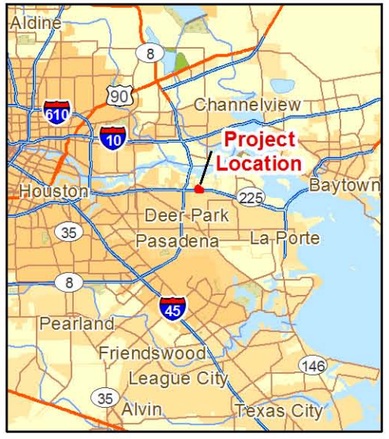

Figure 5 Proposed location of the cogeneration unit

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SUMMARY AND RECOMMENDATIONS

Intensive archeological survey for the proposed new cogeneration unit within the Deer Park Energy Center discovered no archeological resources or historic standing structures. Based on the industrial setting, modern construction, and historic land use, it is B&A's opinion that there is no potential for the APE to contain previously unidentified archeological resources. Additionally, since the Deer Park Energy facility is only 10 years old, there are no anticipated NRHP-eligible standing historic resources located within the facility.

Given these results, it is the opinion of B&A that the APE for the proposed Deer Park Energy Center upgrade is unlikely to contain previously unidentified historic properties (36 CFR 800.16[1]) eligible for inclusion to the NRHP. As such, B&A recommends that the project be allowed to proceed as planned without additional archeological investigations as the proposed construction would not affect any historic properties pursuant to 36 CFR 800.4(d)(1).

If it is determined that additional work space for the proposed project is necessary outside of the survey area, then additional archeological investigations in those locations may be necessary. If archeological resources are identified during construction, work in the immediate area should cease until the THC is contacted and accidental discovery procedures implemented.

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REFERENCES CITED

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1974 *Geologic Atlas of Texas, San Angelo Sheet*. Bureau of Economic Geology. The University of Texas at Austin.

Blair, W. F.

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1987 Guidelines for Professional Performance Standards. Austin.

Hatch, S. L., K. N. Gandhi, and L. E. Brown

1990 *Checklist of the Vascular Plants of Texas*. MP-1655. Texas A&M University Agricultural Experiment Station. College Station, Texas, USA.

National Park Service (NPS)

1983 Archeology and Historic Preservation: Secretary of the Interior's Standard's and Guidelines. *Federal Register* 48 (190):44734-44742.

Natural Resources Conservation Service (NRCS)

2012 Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Texas Archeological Sites Atlas (TASA)

2012 Texas Historical Commission. Austin.

Texas Historical Commission

n.d. Survey Standards. Austin.

2012 Guidelines for Tribal Consultation. http://www.thc.state.tx.us/tribal/basics.shtml. Accessed April 13, 2012.

Wheeler, F. F.

1976 *Soil Survey of Harris County, Texas*. U.S. Department of Agriculture Soil Conservation Service in cooperation with Texas Agricultural Experiment Station.

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Appendix

Resumes for Brandon Young, Maryellen Russo, and Joe Sanchez

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BRANDON S. YOUNG, RPA

Education
M.A., Anthropology, University of Texas at San Antonio, 2002.

Member, Lambda Alpha National Honor Society for Anthropology.

B.A. (*Cum Laude*), Anthropology, University of Texas at Austin, 1994.

University of Texas at Austin Archeological Field School, WS-Ranch Site, Alma, New Mexico, 1993.

Professional Experience (Selected Projects)
Mr. Young has conducted archeological investigations for several wind energy projects in Texas, New Mexico, and Colorado between 2003 and 2012. Due to confidentiality agreements, specific project information is not disclosed.

2003 to present
Principal Investigator/Archeologist, Blanton & Associates, Inc.. Mr. Young conducts archeological survey, excavation, research, and analysis projects and produces oral and written reports. He has written more than 80 archeological reports and is skilled in general cultural resource management. Mr. Young is also very familiar with local, state, and federal preservation laws, including recommendations and guidelines from the Texas Historical Commission and the Council of Texas Archeologists.

2005
Principal Investigator, archeological survey of a 10.3-Kilometer (6.4-Mile) long section of U.S. Highway 83 in Starr County, Texas prior to proposed widening and realignment construction.

2004–2005
Principal Investigator, cultural resource avoidance and mitigative efforts for the proposed LCRA Fort Lancaster to Friend Ranch transmission line, Pecos, Terrell, and Crockett Counties, Texas. Archaeological testing and avoidance/mitigative measures at 16 prehistoric sites.

2004
Principal Investigator, pedestrian archaeological survey for the North Pharr to Harlingen Substation Transmission Line Rebuild, Cameron and Hidalgo Counties, Texas. Pedestrian survey with shovel testing and limited backhoe trenching utilizing a probability model and sampling.

2003
Principal Investigator. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas. Six Shooter to Midland Airport Fiber Optic Cable, Pecos, Crockett, Upton, and Midland Counties, Texas.

2002
Archeologist. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas. Lake Meredith/Plum Creek Prescribed Burn Survey 2002, Lake Meredith National Recreation Area, Fritch, Texas. Pedestrian survey of select portions of the recreation area prior to prescribed burns.

Field Supervisor. SWCA Inc., Environmental Consultants, Austin, Texas. TxDOT Bridge Impact Evaluation Project. Responsible for conducting impact evaluations at numerous (30+) bridge locations throughout Denton County, Texas.

2001–2002
Samalayuca Pipeline Project: Performed laboratory analyses and co-authored the final report of investigations concerning the 1997 mitigation of four prehistoric sites (41EP3038, 41EP3042, 41HZ504, and 41HZ505) along the Samalayuca Pipeline, El Paso and Hudspeth Counties, Texas. The project involved organizing excavation data and re-analyzing artifacts and previous notes produced by Centro de Investigaciones Arqueologicas of El Paso, Texas,

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which was the company responsible for the 1997 data recovery excavations.

2001

Project Archeologist and Field Supervisor. SWCA Inc., Environmental Consultants, Austin, Texas:

Field Supervisor. Cultural Resource Survey of the KPP Supply Company Project Area, Pittsburg County, Oklahoma. Cultural resource investigations along a 53.9-km long water pipeline in east-central Oklahoma. Responsible for supervising field crews and co-author of the report of investigations.

Project Archeologist. LeBrock Power Plant Access Road Survey, Harrison County, Texas. Responsible for conducting an archeological survey along a proposed access road serving the LeBrock Power Plant in Harrison County, Texas, as well as the completion of the report of investigations.

Project Archeologist. Central Texas Telephone Cooperative Survey Project, Colorado Bend State Park, Lampassas and San Saba Counties, Texas. Responsible for archeological survey along proposed fiber optic cable route, as well as the completion of the report of investigations.

Project Archeologist. Colorado Valley Telephone Cooperative Survey Project, Fayette County, Texas. Responsible for archeological survey along proposed fiber optic cable route, as well as the completion of the report of investigations.

Field Supervisor. Los Indios, Los Tomates, and Pharr-Reynosa Border Safety Inspection Facilities Project, Cameron and Hidalgo Counties, Texas. Responsible for conducting backhoe trench excavations at several proposed inspection facility sites, as well as completing the report of investigations.

Project Archeologist. Medway Ranch Archeological Assessment. Responsible for conducting an archeological assessment survey of the 345-acre Medway Ranch, Travis County, Texas, as well as the completion of the report of investigations.

Project Archeologist. Atascosa County Bridge Replacement Project. Responsible for conducting archeological surveys at bridge locations (two) along FM 2504 at the Atascosa River and Sesterdero Creek in Atascosa County, Texas, as well as completion of the reports of investigations.

Project Archeologist. Wooten Investment Corporation Project. Responsible for conducting archeological survey of a 20-acre tract of land in north Travis County, Texas, as well as the completion of the report of investigations.

Field Supervisor. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas, Data Recovery Excavations at 41PS800, Arroyo de la Presa site, Presidio County, Texas. Primary responsibilities included supervision of block excavations and mechanical trenching, excavation of pit features, as well as the production of extensive stratigraphic profiles.

2000

Research scientist assistant II (Archeologist). Center for Archeological Research, The University of Texas at San Antonio. Responsible for daily excavation of units and maintenance of excavation records during the Little River Archeological Test Excavations Project, Milam County, Texas.

Archeologist. Hicks & Company, Wilson Ranch Survey, Pecos County, Texas. Pedestrian survey of 105 proposed windmill pads and associated access roads and transmission line rights-of-way. Responsible for the documentation of newly discovered archeological materials, overseeing archeological technicians, and daily communication with client.

Field Supervisor. SWCA Inc., Environmental Consultants. All American Pipeline/El Paso Natural Gas Survey Project. Aided in supervising the resurvey of portions of the All American Pipeline between McCamey and El Paso, Texas. The project involved extensive pedestrian survey in order to revisit numerous, previously recorded sites and record several previously unknown sites.

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Field Archeologist. SWCA Inc., Environmental Consultants. Avery Ranch Testing Project. Responsible for daily excavation of units and cultural features, as well as the completion of excavation records, and sample forms during test excavations at two prehistoric sites. The project focused on the Pavo Blanco site (41WM559c), a well-preserved burned rock midden containing temporally diagnostic projectile points dating from the Late Paleoindian (Hell Gap specimen) through the Late Prehistoric.

1999

Project Archeologist, SWCA Inc., Environmental Consultants. Level (3) Communications Cultural Resources Survey, Arkansas. Responsible for supervising crews surveying 47 select miles of proposed fiber optic cable right-of-way from Texarkana, Arkansas to West Memphis, Arkansas. The project involved revisiting previously recorded sites in or near the proposed right-of-way as well as recording any previously unknown sites. Also responsible for completion of the Draft Report of Investigations.

Field Supervisor. Hicks & Company Environmental/Archeological Consulting, Austin, Texas. Involved with the daily supervision of archeological excavation crews for the Guy Town Archeological Testing Project.

1998

Teaching Assistant. Center for Big Bend Studies, Sul Ross State University 1998 Archeological Field School in the Davis and Glass Mountains, Brewster County, Texas. Involved in the daily supervision of student excavations at a prehistoric open campsite and a rockshelter.

1997

Archeologist. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas. The Center for Big Bend Studies/Big Bend National Park Survey Project. Continuation of ongoing archeological survey of Big Bend National Park, Brewster County, Texas.

Archeologist. SWCA Inc., Environmental Consultants. Camino-Colombia Toll Road NRHP Eligibility Testing Project, Webb County, Laredo, Texas. Project involved test excavations at 14 archeological sites along the proposed toll road right-of-way. Daily responsibilities involved maintaining excavation records, sample logs, and general project paperwork.

Archeologist. TRC Mariah Associates, Inc., Austin, Texas. Data recovery excavations at prehistoric open campsite 41ZP364. Responsible for individual, daily excavation of units as well as maintaining all appropriate paperwork for each unit.

1996

Archeologist. Prewitt and Associates, Inc., Consulting Archeologists, Austin, Texas. Ft. Hood NRHP Eligibility Testing Project, Killeen, Texas. Responsible for individual, daily excavation of units as well as maintenance of all appropriate paperwork for each unit.

Archeologist. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas. The Center for Big Bend Studies/Big Bend National Park Survey Project. Continuation of ongoing archeological survey of Big Bend National Park, Brewster County, Texas.

Archeologist. Moore Archeological Consulting, Houston, Texas. Responsible for excavation of shovel tests and site recording during the Trinity River Authority Waterline Survey, Huntsville, Walker County, Texas.

1995

Archeologist. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas. The Center for Big Bend Studies/Big Bend National Park Survey Project. Involved in ongoing archeological survey of Big Bend National Park, Brewster County, Texas.

Field Supervisor. SWCA Inc., Environmental Consultants, Austin, Texas. Continuation of the archeological survey along the 130-mile MIDTEXAS Pipeline Project Area, in Gonzales, DeWitt, Lavaca, Colorado, Austin, and Waller Counties.

Archeologist. Moore Archeological Consulting, Houston, Texas. Responsible for daily excavation of units and maintenance of excavation records

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during the Wood Forest Road Testing Project, Houston, Texas.

1994

Field Supervisor. SWCA Inc., Environmental Consultants, Austin, Texas. Archeological survey along the 130-mile MIDTEXAS Pipeline Project Area, in Gonzales, DeWitt, Lavaca, Colorado, Austin, and Waller counties.

Archeologist and Laboratory Technician. Office of the State Archeologist, Texas Historical Commission, Austin. Responsible for daily excavation of units and maintenance of excavation records during the Cristianson-Leberman House Testing Project, Austin, Texas. Also responsible for the cataloging of over 7000 faunal remains from the Horace Rivers Site (41HH123), a Plainview campsite in Hemphill County, Texas.

Archeologist. Moore Archeological Consulting, Houston, Texas, Lake O' the Pines Survey Project. Pedestrian survey with shovel testing at select areas adjacent to Lake O' the Pines, Marion and Upshur counties, Texas.

Publications and Presentations

2012

Archeological Survey of a Proposed Turbine in the Channel Energy Center, Houston, Harris County, Texas. March 27, 2012. Prepared for Channel Energy Center LLC.

Archeological Survey of a Proposed Turbine in the Deer Park Energy Center, Houston, Harris County, Texas. March 27, 2012. Prepared for Deer Park Energy Center LLC.

Intensive Archeological Survey of Proposed Improvements to Bonnie Brae Street from Vintage Boulevard to Interstate Highway 35 East in the City of Denton, Denton County, Texas. March 2012. Prepared for the City of Denton and Graham Associates, Inc.

Intensive Archeological Survey of the Proposed Brushy Creek Wastewater Interceptor Phase II in Williamson County, Texas. March 2012. Prepared for Walker Engineering and the City of Hutto. Submitted to Texas Historical Commission.

Intensive Archeological Survey Supplemental Report, US 77 from SH 107 in the City of Combes to SH 44 in the City of Robstown, Cameron, Willacy, Kenedy, Kleberg, and Nueces Counties, Texas. January 2012. Prepared for Texas Department of Transportation and Texas Turnpike Authority Division.

2011

Intensive Archeological Survey of the Proposed Mountain Creek Interceptor Segments MC-7 And MC-8 in the City of Grand Prairie, Dallas and Tarrant Counties, Texas. December 2011. Prepared for Trinity River Authority of Texas and Lockwood, Andrews & Newnam, Inc.

Intensive Archeological Survey of McCombs Street/FM 2529 from US 54 to Just North of FM 2637 in El Paso, El Paso County, Texas. October 2011. Prepared for Texas Department of Transportation El Paso District. Submitted to Texas Historical Commission.

Archeological Survey of FM 407 at Trail Creek in Denton County, Texas. October 2011. Prepared for Texas Department of Transportation Dallas District and Parsons Brinckerhoff. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the Proposed Highland Sewer Line, City of McAllen, Hidalgo County, Texas. October 2011. Prepared for City of McAllen. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the M325 Segment of the Proposed Village Creek Relief Sanitary Sewer Line in Tarrant County, Texas. October 2011. Prepared for the City of Fort Worth. Submitted to Texas Historical Commission.

An Archeological Survey of IH 35 at CR 132, Hays County, Texas. September 2011. Prepared for Texas Department of Transportation Austin District. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the Proposed Rosillo Creek NWWC (SC-15) Project in the City of Kirby, Bexar County, Texas. September 2011.

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Prepared for Bexar County Flood Control and Pate Engineers, Inc.

Intensive Archeological Survey of the Proposed Schaefer Road Drainage Phase I (CB-19) Project in Northeast Bexar County, Texas. September 2011. Prepared for Bexar County Flood Control.

Intensive Archeological Survey of Old Airport Road at Burgess Creek in Parker County, Texas. September 2011. Prepared for Texas Department of Transportation Fort Worth District, and Aguirre & Fields, LP.

Archeological Testing at 41WB710 and 41WB713 within the Proposed El Pico Water Treatment Plan in the City of Laredo, Webb County, Texas. June 2011. Prepared for the City of Laredo and Dannenbaum Engineering Corporation.

Intensive Archeological Survey of a Proposed Water Main for the County Road 108 Water Improvement Project, City of Hutto, Williamson County, Texas. April 2011. Prepared for Walker Engineering and the City of Hutto. Submitted to Texas Historical Commission.

Intensive Archeological Survey of a Proposed Wastewater Collection System in the Rosa Azul Subdivision Area, Socorro, El Paso County, Texas. February 2011. Prepared for Moreno Cardenas Inc. Consultign Engineers and Lower Valley Water District. Submitted to Texas Historical Commission.

Intensive Archeological Survey of SH 286 from SH 358 to One Mile South of FM 43 in the City of Corpus Christi, Nueces County, Texas. January 2011. Prepared for Texas Department of Transportation Corpus Christi District.

Cultural Resources Survey for the Proposed Biggs East Gate Road, El Paso County, Texas. January 2011. Prepared for Texas Department of Transportation El Paso District.

Archeological Survey on SH: 75 from IH 45 to Post Oak Road in the City of Conroe, Montgomery County, Texas. January 2011. Prepared for Texas Department of Transportation Houston District and KBR.

Archeological Survey of FM 3083 from IH 45 to LP 336 in the City of Conroe, Montgomery County, Texas. January 2011. Prepared for Texas Department of Transportation Houston District and TranSystems.

<u>2010</u>

Interim Archeological Survey Report for a Portion of the Trinity River Authority's Proposed MC-7/MC-8 Sanitary Sewer Project, Dallas and Tarrant Counties. December 2, 2010. Prepared for Trinity River Authority. Submitted to the Texas Historical Commission.

Spinning Star Wind Ranch and Transmission Line Environmental Report, Upton, Reagan, and Crockett Counties, Texas December 2010. Prepared for Spinning Star Energy, LLC, for U.S. Department of Energy application.

Intensive Archeological Survey of Selected Parts of Loop 1604 from US 90 to IH 35 in the City of San Antonio, Bexar County, Texas. December 2010. Prepared for Alamo Regional Mobility Authority. Submitted to Texas Department of Transportation Environmental Affairs Division.

Research Design, Archeological Data Recovery Excavations at Prehistoric Sites 41VV2012 and 41VV2013 in the Del Rio Outer Loop, Val Verde County, Texas. September 29, 2010. Prepared for Texas Department of Transportation Environmental Affairs Division.

Archeological Survey of Lake Falcon County Park and Boat Ramp in the City of Zapata, Zapata County, Texas. September 2010. Prepared for the County of Zapata and the Texas Department of Transportation Pharr District. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of Four Post-review Discoveries within the Del Rio Outer Loop, Val Verde County, Texas. August 2010. Submitted to Texas Department of Transportation Environmental Affairs Division.

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Summary of Construction Impacts to Sites 41VV2012 and 41VV2013 in the Del Rio Outer Loop, Val Verde County, Texas. August 30, 2010. Prepared for Texas Department of Transportation Environmental Affairs Division.

Intensive Archeological Survey of FM 90 at Lacy Fork Creek, An Unnamed Relief Drainage, and Caney Creek in Kaufman County, Texas. August 2010. Prepared for Texas Department of Transportation Dallas District. Submitted to Texas Department of Transportation Environmental Affairs District.

Intensive Archeological Survey of FM 1139 at Brushy Creek in Rockwall County, Texas. August 2010. Prepared for Texas Department of Transportation Dallas District. Submitted to Texas Department of Transportation Environmental Affairs District.

Archeological Investigations for the Proposed Gavilan/La Pita/Rio Grande Pipeline and Well Pad No. 2 in the Boca Chica Tract of the Lower Rio Grande Valley National Wildlife refuge in Cameron County, Texas. June 2010. Prepared for Sanchez Oil & Gas Corporation. Submitted to U.S. Fish and Wildlife Service Southwest Region and Texas Historical Commission.

Intensive Archeological Survey of US 77 from SH 107 in the City of Combes to SH 44 in the City of Robstown, Cameron, Willacy, Kenedy, Kleberg, and Nueces Counties, Texas. February 2010. Prepared forTexas Department of Transportation Pharr and Corpus Christi Districts. Submitted to Texas Turnpike Authority and Texas Department of Transportation Environmental Affairs Division.

Intensive Archeological Survey of Loop 375/Joe Battle Boulevard at FM 659/Zaragoza Road in the City of El Paso, El Paso County, Texas. June 2010. Prepared for Texas Department of Transportation El Paso District. Submitted to Texas Department of Transportation Environmental Affairs Division.

Intensive Archeological Survey of the M325 Segment of the Proposed Village Creek Relief Sanitary Sewer Line in Tarrant County, Texas. June 2010.Prepared for the City of Fort Worth. Submitted to Texas Historical Commission.

Intensive Archeological Survey of a Proposed City of Grand Prairie Wastewater Utility Line on U.S. Army Corps of Engineers Property South of Joe Pool Lake in Ellis County, Texas. May 2010. Prepared for City of Grand Prairie and Espey Consultants. Submitted to U.S. Army Corps of Engineers Fort Worth District.

Intensive Archeological Survey of Loop 375 from Approximately One Mile West of U.S. Highway 54 to Business Highway 54 (Dyer Street), El Paso, El Paso County, Texas. April 2010. Prepared for Texas Department of Transportation El Paso District.

Intensive Archeological Survey of Loop 375 from Interstate Highway 10 to Franklin Mountains State Park, El Paso County, Texas. April 2010. Prepared for Texas Department of Transportation El Paso District.

An Intensive Archeological Survey in Hazel Bazemore County Park, Nueces County, Texas. April 2010. Prepared for Nueces County and Olivarri & Associates, Inc. Submitted to the Texas Historical Commission.

Cultural Resources Survey for the Proposed Expansion of the North McAllen Wastewater Treatment Plan in the City of McAllen, Hidalgo County, Texas. April 2010. Prepared for Dannenbaum Engineering on Behalf of the City of McAllen. Submitted to the Texas Historical Commission.

An Intensive Archeological Survey of a Proposed Extension to the McCarty Lane Improvement Project from 5,170 Feet East of IH 35 to 6,534 Feet East of IH 35, Hays County, Texas. March 2010. Prepared for the City of San Marcos and KBR, Inc. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of Two Off-system Bridges in Wise County, Texas. March 2010. Prepared for Texas Department of Transportation Fort Worth District. Submitted to the Texas Historical Commission.

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2009

Archeological Assessment, Proposed Pavement Repairs and Drainage Improvements on Sessom Drive in the City of San Marcos, Hays County, Texas. December 16, 2009. Prepared for the City of San Marcos.

Archeological and Geoarcheological Investigations for the Proposed El Pico Waste Water Treatment Plant in the City of Laredo, Webb County, Texas. December 2009. Prepared for City of Laredo and Dannenbaum Engineering. Submitted to Texas Historical Commission.

Archeological Survey of a Proposed Bike and Hike Trail along Wonder World Drive in the City of San Marcos, Hays County, Texas. November 2009. Prepared for the City of San Marcos and KBR.

Archeological Survey of McCarty Lane at Cottonwood Creek in the City of San Marcos, Hays County, Texas. November 2009. Prepared for City of San Marcos and KBR, Inc.

Archeological Investigations for the Proposed Redhead Ridge Gas Well Pad in Laguna Atascosa National Wildlife Refuge, Cameron County, Texas. October 2009. Prepared for Sanchez Oil and Gas, Inc. Submitted to Texas Historical Commission.

Interim Report: Archeological and Geoarcheological Investigations for the Proposed El Pico Water Treatment Plant in the City of Laredo, Webb County, Texas. October 2, 2009. Prepared for the City of Laredo. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of Paseo Del Norte Road from I-10 to North Resler Drive in the City of El Paso, El Paso County, Texas. September 2009. Prepared for City of El Paso and Texas Department of Transportation El Paso District. Submitted to Texas Department of Transportation Environmental Affairs Division.

Intensive Archeological Survey of SH 242 from IH 45 to US 59 in Montgomery County, Texas. September 2009. Prepared for Texas Department of Transportation Houston District and Transystems.

An Intensive Archeological Survey for the Proposed Realignment of the Las Cruces Drive/ FM 1472 Intersection in the City of Laredo, Webb County, Texas. June 2009. Prepared for the City of Laredo and the Texas Department of Transportation Laredo District.

Archeological Survey of Chisholm Trail Road and the Proposed Chisholm Trail Parkway Extension in the City of Round Rock, Williamson County, Texas. May 2009. Prepared for the City of Round Rock and Rodriguez Transportation Group.

Intensive Archeological Survey of FM 1391 at Cedar Creek Relief and FM 1565 at Draw in Kaufman County, Texas. April 2009. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey Investigations for a Proposed Salado Utility, Inc., Wastewater Treatment Plan in Salado, Bell County, Texas. March 2009.Prepared for Sterling Development Company. Submitted to Texas Historical Commission.

Archeological Survey of a Proposed McAllen Public Utility Reservoir and Pipeline Infrastructure in McAllen, Hidalgo County, Texas. March 2009. Prepared for McAllen Public Utility and Melden and Hunt, Inc. Submitted to Texas Historical Commission.

2008

Archeological Investigations for the Proposed Creekside Villas in the City of Buda, Hays County, Texas. October 2008. Prepared for ECS-Texas, LLP.

An Intensive Archeological Survey of IH 45 from Just North of Wintergreen Road to Just South of Pleasant Run Road, Dallas County, Texas. October 2008. Prepared for Texas Department of Transportation Dallas District and Dannenbaum Engineering Corporation.

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Archeological Investigations on CR 142 at Stinking Creek in Kent County, Texas. October 2008. Prepared for the Texas Department of Transportation Abilene District. Submitted to the Texas Historical Commission.

Archeological Investigations for Three Off-system Bridge Replacements in Scurry County, Texas. October 2008. Prepared for the Texas Department of Transportation Abilene District. Submitted to the Texas Historical Commission.

Archeological Investigations for the Proposed Deadwood Gas Well in Laguna Atascosa National Wildlife Refuge, Cameron County, Texas. October 2008. Prepared for Sanchez Oil & Gas Corporation. Submitted to Texas Historical Commission.

Archeological Assessment, SH 352 (Scyene Road) at Union Pacific Railroad between Hatcher Street and Dixon Avenue in the City of Dallas, Dallas County, Texas. September 18, 2008. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey of FM 89 at Elm Creek, Taylor County, Texas. July 2008. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

An Intensive Archeological Survey of US 80 at SH 352 in Dallas County, Texas. June 2008. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey of Military Drive from Market Street to Arnold Boulevard in the City of Abilene, Taylor County, Texas. June 2008. Prepared for Texas Department of Transportation Abilene District.

An Intensive Archeological Survey of the Proposed Old Milwaukee Outfall Pipeline in the City of Laredo, Webb County, Texas. June 2008.

Archeological Survey for the Salado Creek Hike and Bike Trail between Houston Street and Benz-Englemen Road in the City of San Antonio, Bexar County, Texas. May 2008. Prepared for the City of San Antonio and Lockwood Andrews and Newnam.

Archeological Survey of US 277 at Fish Creek in Nolan County, Texas. May 2008. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Cultural Resources Survey for Proposed Roadway Improvements on FM 775 between IH 10 and the Guadalupe/Wilson County Line, Guadalupe County, Texas. May 2008. Prepared for Texas Department of Transportation San Antonio District.

Archeological Reconnaissance Survey of Loop 494 from Sorters-McClellan Road to Just North of Kingwood Drive in the City of Kingwood, Harris and Montgomery Counties, Texas. February 2008. Prepared for Texas Department of Transportation Houston District and KBR.

An Intensive Archeological Survey of the Colombia Wastewater Treatment Plant in the City of Laredo, Webb County, Texas. January 2008. Prepared for the City Of Laredo.

<u>2007</u>

Archeological Investigations for Three Off-system Bridge Replacements in Fisher County, Texas. November 2007. Prepared for Texas Department of Transportation Abilene District.

An Intensive Archeological Survey for the Proposed Plover Point Boardwalk in Laguna Atascosa National Wildlife Refuge, Cameron County, Texas. November 2007. Prepared for The Friends of Laguna Atascosa and the Laguna Atascosa National Wildlife Refuge.

An Intensive Archeological Survey for a Proposed Concrete Mix Plant at 1030 Creekview Drive in the City of San Antonio, Bexar County, Texas. October 2007. Prepared for Jones & Carter, Inc., and Oldcastle APG Texas, Inc.

Archeological Assessment of a Proposed Oil Well Pad Site on the University of Texas at Arlington Campus, Tarrant County. October 4,

US EPA ARCHIVE DOCUMENT

2007. Prepared for Carrizo Oil & Gas, Inc. Submitted to Texas Historical Commission.

Archeological Monitoring for the Tri-county Special Utility District in Falls and Limestone Counties, Texas. October 2007. Prepared for Duff Consulting Engineers and Tri-County Special Utility District.

Interim Letter Report, Archeological Survey of Eight Proposed Radio Tower Sites in Laguna Atascosa National Wildlife Refuge in Cameron County, Texas. September 13, 2007. Prepared for Texas Department of Transportation Pharr District. Submitted to the U.S. Fish and Wildlife Service.

Class III Cultural Resource Inventory for a Proposed Meteorological Tower and a 2.5-mile Off-road Access Route on Bureau of Land Management Property, Arizona Strip District, Mojave County, Arizona, Draft. September 2007. Prepared for Gamesa Energy USA and Bureau of Land Management Arizona Strip District. Submitted to Bureau of Land Management.

Interim Report, Archeological Assessment of North Wayside Road at Halls Bayou in the City of Houston, Harris County, Texas. September 2007. Prepared for Texas Department of Transportation Environmental Affairs Division and Houston District.

Cultural Resource Investigations on IH-10 between SH 62 and the Sabine River, Orange County, Texas. August 2007. Prepared for Texas Department of Transporation Beaumont District and CH2M Hill.

An Intensive Archeological Survey for the Proposed US 87 Reliever Route in the City of LaMesa, Dawson County, Texas. August 2007. Prepared for Texas Department of Transportation Lubbock District and Parkhill, Smith, & Cooper, Inc. Submitted to Texas Department of Transportation Environmental Affairs Division.

Archeological Investigations for Roadway Widening and Bridge Replacement Construction on FM 685 between US 79 and SH 130, Williamson County, Texas. July 2007. Prepared for Texas Department of Transportation Austin District.

Archeological Testing at Site 41PK248 on the Alabama-Coushatta Indian Reservation, Polk County, Texas. June 2007. Prepared for Comstock Oil and Gas, Inc. Submitted to the Bureau of Indian Affairs, Bureau of Land Management, and Texas Historical Commission.

Archeological Investigations on Old Boyce Road at Mustang Creek in Ellis County, Texas. June 2007. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey for a Proposed Bridge Replacement on US 180 at the North Prong of Hubbard Creek in the City of Albany, Shackelford County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Archeological Survey for Proposed Roadway Improvements on FM 1641 and FM 148 in Kaufman County, Texas. June 2007. Prepared for Texas Department of Transportation Dallas District.

Archeological Investigations on CR 640 at Mulberry Creek in Taylor County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Archeological Investigations on CR 143 at Seale Creek in Nolan County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

*Archeological Investigations on US 83 at Salt Fork of the Brazos River and Stinking Creek in Stonewall County, Texa*s. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Cultural Resources Survey of Proposed Improvements to US 83 in Zapata and Starr Counties, Texas. May 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Pharr District.

US EPA ARCHIVE DOCUMENT

Archeological Background Review, FM 127 between US 83 and FM 2690 in Uvalde County, Texas. May 11, 2007. Prepared for Texas Department of Transportation San Antonio District.

Archeological Survey for the Proposed Bay Harbour Waterfront Community in the City of Matagorda, Matagorda County, Texas. May 2007. Prepared for Hoxie Development Ltd.

Letter to Texas Department of Transportation Environmental Affairs Division Regarding Archaeology Recommendation Associated with SH 146 Roadway Improvements in Texas City, Galveston County, Texas. April 4, 2007.

Archeological Survey on FM 1235 between Buffalo Gap and View, Taylor County, Texas. February 2007. Prepared for Texas Department of Transportation Abilene District.

Letter re recommendation that further archeological investigations are not necessary and construction should be allowed to proceed. January 11, 2007. Prepared for Texas Department of Transportation Houston District. Submitted to Texas Department of Transportation Environmental Affairs Division.

2006

Interim Report, Archeological Survey for the Proposed Colombia Wastewater Treatment Plant Expansion for the City of Laredo in Webb County, Texas. December 19, 2006. Submitted to Texas Historical Commission.

Interim Report, Cultural Resources Survey and Avoidance Measures for a Proposed 3D Seismic Exploration in the Vicinity of the Brownsville Navigation District and the Laguna Madre in Cameron County, Texas. November 3, 2006. Submitted to Texas Historical Commission.

Cultural Resource Avoidance Measures on Federal Property for the Mercedes Connection Seismic Exploration Project, Cameron and Willacy Counties, Texas. Interim Report. October 9, 2006. Prepared at the Request of the U.S. Fish &Wildlife Service. Submitted to the Texas Historical Commission.

Archeological Investigations on FM 707 at Mulberry Creek, Taylor County, Texas. September 2006. Prepared for Texas Department of Transportation Abilene District and Kimley-Horn and Associates, Inc.

Cultural Resources Survey of Twelve Proposed Ramp Locations on IH 20 and US 83/277 at FM 3438 between the Cities of Tye and Abilene, Taylor County, Texas. August 2006. Prepared for Texas Department of Transportation Abilene District and Chica & Associates, Inc., Beaumont, Texas.

A Class III Archeological Inventory of Two Proposed Well Pads on the Alabama-Coushatta Indian Reservation, Polk County, Texas. July 2006. Prepared for Comstock Oil and Gas, Inc. Submitted to the Bureau of Indian Affairs, Bureau of Land Management, and Texas Historical Commission.

Sherrin 3D Seismic Archeological Survey, Starr County, Texas. June 2006. Prepared for Weems Geophysical, Inc. Submitted to Texas Historical Commission.

An Archeological Survey of Bicentennial Park and a Proposed Hiking Trail in Sanderson, Terrell County, Texas. March 2006. Prepared for Landgraf, Crutcher and Associates, Inc., and the County of Terrell

Cultural Resource Investigations on US 277 at Valley and Spring Creeks, Taylor County, Texas. March 2006. Prepared for Kimley-Horn and Associates, Inc. and Texas Department of Transportation Abilene District.

Cultural Resource Investigations on FM 419 at Kildoogan Creek, Nolan County, Texas. March 2006. Prepared for Texas Department of Transportation Abilene District and Landtech Consultants, Inc.

Cultural Resources Survey for the Proposed El Paso Inner Loop, El Paso County, Texas. January 2006. Prepared for Texas Department of Transportation El Paso District and KBR.

US EPA ARCHIVE DOCUMENT

Archeological Survey along State Highway 114, Denton County, Texas. January 2006. Prepared for Texas Department of Transportation Dallas District and KBR Engineering.

Prepared the cultural resources section of a Categorical Exclusion for Proposed Bridge Replacement and Roadway Improvement Construction on the SH 82 Sabine Lake Causeway, Jefferson County, Texas, and Cameron Parish, Louisiana. January 2006. Prepared for LAN and Texas Department of Transportation Beaumont District.

2005

Archaeological Impact Evaluations for Six Brazoria County Bridges: *CR 16 at Cow Creek Impact Evaluation, CR 64at West Fork Chocolate Bayou Impact Evaluation, CR64 at Ditch Impact Evaluation, CR 65 at South Hayes Creek Impact Evaluation, CR 65 at North Hayes Creek Impact Evaluation, CR 67 at West fork Chocolate Bayou Impact Evaluation*. December 2005. Prepared for Texas Department of Transportation Houston District and KBR.

Cultural Resource Investigations for Three Off-System Bridge Replacements in Navarro County, Texas. November 2005. Prepared for Texas Department of Transportation Dallas District and KBR Engineering.

Archeological Impact Evaluations and Surveys for the Texas Department of Transportation Waco District, 2003-2005. November 2005. Prepared for Texas Department of Transportation Waco District.

Cultural Resources Survey for the Proposed El Paso Inner Loop, El Paso County, Texas, Draft. November 2005. Prepared for Texas Department of Transportation El Paso District.

*Cultural Resources Potential, SH 78 from Just North of President George Bush Turnpike to Spring Creek Parkway, Dallas and Collin Counties, Texa*s. November 8, 2005. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey of a 10.3-Kilometer Long Section of US Highway 83 Prior to Proposed Widening and Realignment Construction, Starr County, Texas. Prepared for Federal Highway Administration and Texas Department of Transportation Pharr District

Cultural Resources Background Report, RM 2243 between Leander and Georgetown, Williamson County, Texas. July 2005. Prepared for Texas Department of Transportation Austin District.

Archaeological Survey of Proposed Pflugerville Loop Improvements, City of Pflugerville, Travis County, Texas. February 2005. Prepared for HDR Engineering and the City of Pflugerville.

2004

Archaeological Survey of the AEP—LCRA North Pharr to Harlingen Substation Transmission Line Rebuild Project, Hidalgo and Cameron Counties, Texas. November 2004. Prepared for American Electric Power and Lower Colorado River Authority.

Cultural Resource Avoidance and Mitigative Efforts at 16 Archeological Sites on the LCRA Fort Lancaster to Friend Ranch Transmission Line, Pecos, Terrell, and Crockett Counties, Texas. September 2004. Prepared for American Electric Power and Lower Colorado River Authority.

Archaeological Survey for the Proposed BSMC Unit D1 Well under the Big Sandy Creek Unit of the Big Thicket National Preserve. June 2004. Submitted to National Park Service, Big Thicket National Preserve. Prepared for Comstock Oil & Gas Corporation.

Archaeological Survey for the Proposed BSMC Unit B1 Well under the Big Sandy Creek Unit of the Big Thicket National Preserve. May 2004. Submitted to National Park Service, Big Thicket National Preserve. Prepared for Comstock Oil & Gas Corporation.

A Treatment Plan for Archaeological Data Recovery Excavations at 41HG184, Hidalgo

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County, Texas. May 2004. Prepared for La Joya Water Supply Corporation.

Archaeological Survey of the Proposed American Electric Power Fort Lancaster to Friend Ranch Substation Transmission Line, Pecos, Crockett, and Terrell Counties, Texas, Draft. April 2004. Prepared for American Electric Power.

Cultural Resources Survey along the Proposed Old River Pipeline, Chambers and Liberty Counties, Texas. April 2004. Prepared for Old River Gas Pipeline, LLC.

Additional Archaeological Survey for Water Lines for the City of Eagle Pass Water Works System, Maverick County, Texas. March 2004. Prepared for the City of Eagle Pass.

Archaeological Survey of the Proposed Collins #3 Well under the Big Sandy Creek Unit of the Big Thicket National Preserve. March 2004. Submitted to the National Park Service, Big Thicket National Preserve. Prepared for Comstock Oil & Gas Corporation.

*Interim Report, Archaeological Survey of US 281 at the North Bosque River, Hamilton County, Texa*s. March 1, 2004. Prepared for Texas Department of Transportation Waco District.

Interim Report Archeological Survey of SH 317 at Leon River. February 23, 2004. Prepared for Texas Department of Transportation Waco District.

Archaeological Survey on Exxon Road at Crystal Draw. January 2004. Prepared for Texas Department of Transportation Houston District and CH2MHILL.

<u>2003</u>

Archaeological Testing at 41HG177, Hidalgo County, Texas. December 2003. Prepared for La Joya Water Supply Corporation.

Archaeological Testing at 41HG184, Hidalgo County, Texas. October 2003. Prepared for La Joya Water Supply Corporation.

Archaeological Survey of the City of Pflugerville Raw Water Pipeline Right of Way. October 2003. Prepared for HDR Engineering.

Archeological Impact Evaluation, FM 930 at Plum Creek. October 2003. Prepared for Texas Department of Transportation Waco District.

<u>2002</u>

Archeological Survey in the North Rosillos Area of Big Bend National Park, Brewster County Texas. Unpublished Master's thesis, The University of Texas at San Antonio.

Archeological Survey of A Proposed 57-Foot Central Texas Telephone Cooperative Telecommunications Cable in Colorado Bend State Park, Lampassas and San Saba Counties, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-365, Austin, Texas.

Archeological Investigations at the Los Indios, Los Tomates, and Pharr-Reynosa Border Safety Inspection Facilities, Cameron and Hidalgo Counties, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 02-281, Austin, Texas.

(co-author) Draft, *Archeological Data Recovery Excavations at Four Sites on the Samalayuca Natural Gas Pipeline, El Paso and Hudspeth Counties, Texas.* SWCA Inc., Environmental Consultants, Cultural Resource Report 02-288, Austin, Texas.

<u>2001</u>

Archeological Survey of an Access Road for the Proposed LeBrock Power Plant Site, Harrison County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-362, Austin, Texas.

Archeological Survey of a Proposed Colorado Valley Telephone Cooperative Fiber Optic Cable, Fayette County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-367, Austin, Texas.

Archeological Survey for a Bridge Replacement on FM 2504 Across Siestedero Creek, Atascosa County, Texas. SWCA Inc., Environmental

US EPA ARCHIVE DOCUMENT

Consultants, Cultural Resource Report 01-371, Austin, Texas.

Archeological Survey for a Bridge Replacement on FM 2504 at the Atascosa River, Atascosa County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-370, Austin, Texas.

Archeological Assessment of Five Prehistoric Sites within the Proposed Facilities and Engineering Plan Project Area, City of Laredo, Webb County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-359, Austin, Texas.

An Archeological Survey of the Proposed IH 35 Rest Area, Medina County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-355, Austin, Texas

An Archeological Survey of 20 Acres at 12007 North Lamar Boulevard, Austin, Travis County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-451, Austin, Texas.

An Archeological Assessment of Portions of the 345-Acre Medway Ranch, Travis County, Texas. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-360, Austin, Texas.

(co-author) *Cultural Resources Survey of the Proposed Bob Bryant Park, City of Bastrop, Bastrop County, Texas*. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-356, Austin, Texas.

(co-author) *Archeological Assessment of the Proposed La Cantera Project Area, Bexar County, Texas.* SWCA Inc., Environmental Consultants, Cultural Resource Report 01-249, Austin, Texas.

(co-author) *A Phase I/II Cultural Resource Survey of Portions of 16TR5, The Gibson Mounds Site, Terrebonne Parish, Louisiana*. SWCA Inc., Environmental Consultants, Cultural Resource Report 01-372, Austin, Texas.

(co-author) *Cultural Resource Survey of the KPP Supply Company Project, Pittsburg County, Oklahoma.* SWCA Inc., Environmental Consultants, Cultural Resource Report 01-364, Austin, Texas.

<u>2000</u>

Center for Big Bend Studies Seventh Annual Conference, Sul Ross State University, Alpine, Texas. Presentation concerning Master's thesis research in Big Bend National Park, Brewster County, Texas.

Results of Archeological Investigations for the Proposed Sugarland Ranch Levee Project, Fort Bend County, Texas. SWCA Inc., Environmental Consultants, Archeological Report 00-124, Austin, Texas.

Archeological Survey of the Proposed Level (3) Communications, Inc. Fiber Optic Cable Right-of-Way in Twelve Arkansas Counties. Draft. SWCA Inc., Environmental Consultants, Archeological Report 99-64, Austin, Texas.

Archeological Monitoring and Geomorphic Assessment of the Proposed PEMEX Interconnect Pipeline, Hidalgo County, Texas. SWCA Inc., Environmental Consultants, Archeological Report 99-66, Austin, Texas.

<u>1998</u>

Southern Texas Archeological Association Fall 1998 Meeting. Presentation discussing results of preliminary archeological survey and test excavations in Gilliland Canyon, Glass Mountains, Brewster County, Texas.

Center for Big Bend Studies Fifth Annual Conference, Sul Ross State University, Alpine, Texas. Presentation concerning hunter-gatherer occupation of Gilliland Canyon, Glass Mountains, Brewster County, Texas.

<u>1997</u>

Results of an Archeological Assessment of Sites 41TV126, 41TV1000, and 41TV1331 on the Proposed Walnut Park Crossing, Travis County, Texas. SWCA Inc., Environmental Consultants, Archeological Report 97-69, Austin, Texas.

City of Rio Bravo Wastewater System Project, Webb County, Texas. SWCA Inc., Environmental

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Consultants, Archeological Report 97-70, Austin, Texas.

1996
Archeological Survey of the Proposed 130-Mile MIDTEXAS Lavaca,Colorado, Austin, and, Waller Counties, Texas. SWCA Inc., Environmental Consultants, Archeological Report 95-154, Austin, Texas.*Pipeline, Gonzales, Dewitt.*

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MARYELLEN K. RUSSO

Education
Master of Arts, Public History, Appalachian State University, Boone, North Carolina, 2000

Bachelor of Arts, History, Appalachian State University, Boone, North Carolina, 1998

Continuing Education
David Gamble, Federal Highway Administration. "Section 4(f) Compliance." Austin, Texas. 2009.

Lisa Meyer, Advisory Council on Historic Preservation. "Section 106 Advanced Seminar." Kansas City, Missouri. 2008.

David Gamble, Federal Highway Administration. "Section 4(f) Compliance for Transportation Projects." Austin, Texas. 2006.

James C. Massey and Shirley Maxwell. National Preservation Institute. "Identification and Evaluation of Mid-20th-Century Buildings." Austin, Texas. 2005.

John Donaldson. Texas Department of Transportation. "Introduction to GIS." Austin, Texas. 2005.

David Gamble, Federal Highway Administration. "NEPA and Highway Projects." Moorefield, West Virginia. 2004.

Claudia Nissley, National Preservation Institute. "An Introduction: Section 106." Jacksonville, Florida. 2004.

Thomas King, National Preservation Institute. "Integrating Cultural Resource Management in NEPA Compliance." Washington, DC. 2003.

Carol Shull, Keeper of the National Register of Historic Places. "National Register of Historic Places Workshop." Cleveland, Ohio. 2002.

Gabrielle Lanier, Vernacular Architecture Forum. "Historic Preservation in Rural America." Boone, North Carolina. 2001.

Professional Experience
Blanton & Associates, Inc., 2010 to Present
Architectural Historian. Ms. Russo is principal investigator for intensive- and reconnaissance-level architectural history and history cultural resource management projects. This entails conducting fieldwork, research, and surveys; identifying and documenting cultural resources; and developing historic contexts, National Register of Historic Places nominations, and HABS/HAER level documentation. In addition, she trains and supervises crews and successfully prepares budgets, scopes of work, and proposals.

Mead & Hunt, Inc. 2006-2009
Senior Historian and Project Manager. Served as project manager and primary author for reconnaissance-level and intensive-level historic resources surveys for compliance with Section 106 of the National Historic Preservation Act (NHPA), as well as mitigation and special research projects for the Texas Department of Transportation (TxDOT) Environmental Affairs Division. Was responsible for scoping, budgeting, leading, and managing projects with staff members in Austin and other Mead & Hunt offices throughout the United States. Served as technical leader for large studies, including the National Register evaluation of approximately 15,000 post-World War II bridges in Texas and statewide evaluation of the pre-1966 bridges in Indiana. Completed National Environmental Policy Act (NEPA) language for historic resources surveys and Section 4(f) of the US Department of Transportation Act (Section 4(f)) Evaluations when required.

Mead & Hunt, Inc. 2004-2007
In-house Consultant to TxDOT Environmental Affairs Division. Responsible for completing historic resource surveys for compliance with Section 106 of the NHPA, the Texas Antiquities Code, and NEPA. Conducted historical research and documentation to support the identification and evaluation of historic properties. Led Section 106 coordination activities between TxDOT and the State Historic

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Preservation Office, and participated in activities involving the creation, management, and updating of historic property inventories. Responsible for reviewing consultant-produced reports and confirming that documentation was correctly completed in accordance with Section 106, the Texas Antiquities Code, and NEPA. Drafted appropriate language to be included in Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions.

West Virginia Division of Highways, Charleston 2002-2004

Structural Historian and Project Manager. Completed historical research, field survey, and National Register evaluations of buildings, bridges, and historic districts. Responsible for drafting and finalizing Section 106, NEPA and Section 4(f) reports. Led project teams of archeologists and biologists. Reviewed historic resource survey reports produced by all historians on staff as well as all consultant-produced historic resources surveys; guided staff historians in historical research and historic property evaluations; managed and directed cultural resources consultants when hired for contract work. Coordinated and facilitated public meetings for projects with significant historic resources concerns. Responsible for correspondence with the State Historic Preservation Office for all National Register eligibility and project effects determinations.

Appalachian Cultural Museum, Boone, North Carolina 2000-2002

Historian and Assistant Director of Education. Performed historical research for temporary exhibits and new permanent exhibits. Established educational programs and led tours of the museum. Created and organized new collections management system. Aided in care of museum and objects, and contributed an article feature one of the permanent exhibits in monthly Museum publication.

Publications/Project Experience

Research Design for Historic Resources Studies, SL 82 from Thorpe Lane to Charles Austin Street, Hays County, Texas. February 2012. Prepared for Texas Department of Transportation Austin District and City of San Marcos.

Non-federal Highway Administration Categorical Exclusion, US 59 at Fountain View Drive, Harris County, Texas. February 2012. Prepared for Texas Department of Transportation Houston District.

Letter requesting concurrence that Texas Department of Transportation Project SH 16 from SH 254 to Cliff Drive, Palo Pinto County, Texas, be classified as an Environmental Assessment. February 6, 2012. Prepared for Texas Department of Transportation Department Fort Worth District for submittal to Federal Highway Commission.

Intensive Archeological Survey Supplemental Report, US 77 from SH 107 in the City of Combes to SH 44 in the City of Robstown, Cameron, Willacy, Kenedy, Kleberg, and Nueces Counties, Texas. January 2012. Prepared for Texas Department of Transportation and Texas Turnpike Authority Division.

Reconnaissance-level Resources Survey Report. US 90 from SH 61 to FM 1009, Liberty County, Texas. September 2011. Prepared for Texas Department of Transportation Environmental Affairs Division.

Reconnaissance-level Historic Resources Survey Report, Rosillo Creek NWWC (SC-15) Project, Kirby, Bexar County, Texas. September 2011. Prepared for Bexar County Flood Control and Pate Engineers, Inc.

Reconnaissance Level Historic Resources Survey Report, SH 16 from Cliff Drive to SH 254, Palo Pinto County, Texas. June 2011. Prepared for Texas Department of Transportation Fort Worth District and Rodriguez Transportation Group.

Public Involvement Plan, SH 16 from SH 254 to Cliff Drive, Palo Pinto County, Texas. March 2011. Prepared for Texas Department of Transportation Fort Worth District and Rodriguez Transportation Group.

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Research Design for Historic Resources Studies, SH 16 from SH: 254 to Cliff Drive, Palo Pinto County, Texas. January 2011. Prepared for Texas Department of Transportation Fort Worth District.

Reconnaissance Level Historic Resources Survey, US 190 from Spur 172 to FM 2410, Bell County, Texas. December 2009. Prepared for Texas Department of Transportation Environmental Affairs Division and Waco District.

Reconnaissance Level Historic Resources Survey Report, US 77 from IH 37 in Corpus Christi to US 83 in Brownsville, Nueces, Kleberg, Kenedy, Willacy, and Cameron Counties, Texas. November 2010. Prepared for Texas Department of Transportation Pharr and Corpus Christi Districts and Texas Turnpike Authority Division.

Draft Reconnaissance-level Historic Resources Survey Report, North LBJ Drive from Sessom Drive to Holland Street, San Marcos, Hays County, Texas. May 2010. Prepared for Texas Department of Transportation Austin District.

Individual Section 4(f) Evaluation, IH 35 Improvements to FM 1858 to FM 1304, Hill and McLennan Counties, Texas. April 2010. Prepared for Federal Highway Administration and Texas Department of Transportation Environmental Affairs Division and Waco District.

With other companies:

2009. Inventory and Evaluation of Texas Bridges, 1945 to 1965, completed for the Texas Department of Transportation (Statewide – Texas). Role: Technical leader on project, primary author of Historic Context of Texas Bridges, 1945 to 1965, primary author of the Final Evaluation Methodology, conducted and led fieldwork.

2009. Mead & Hunt. Historic Bridge Programmatic Section 4(f) Guidelines and Standards of Submission, completed for the Texas Department of Transportation. Role: Project manager and primary author of report.

2009. Mead & Hunt. FM 919 at Panther Creek Programmatic Section 4(f) Evaluation, completed for the Texas Department of Transportation (Palo Pinto County, Texas). Role: Project manager, primary author of report, and conducted fieldwork.

2009. Mead & Hunt. Young County Road 228 at Briar Creek Programmatic Section 4(f) Evaluation, completed for the Texas Department of Transportation (Young County, Texas). Role: Conducted fieldwork and primary author of report.

2008. Texas Department of Transportation. Historic Preservation Training Manual, completed in conjunction with the Texas Department of Transportation. Role: Aided Environmental Affairs Division staff in developing a training manual and presentation for NHPA Section 106, NHPA Section 110, NEPA, and Section 4(f) compliance projects.

2008. Mead & Hunt. County-wide Sidewalk Improvement Project Reconnaissance Surveys, completed for the Texas Department of Transportation (Brown, Coleman, and Comanche, Lampasas, McColloch, and Mills Counties, Texas). Role: Led fieldwork and completed quality review of reports.

2008. Mead & Hunt. Inventory and Evaluation of pre-1966 Indiana Bridges, completed for the Indiana Department of Transportation (Statewide- Indiana). Role: Completed National Register evaluations on over 1000 concrete and steel bridges.

2007. Mead & Hunt. National Register of Historic Places Nomination of John and Flora Gilbert House, prepared for the Village of Oregon, Wisconsin. Role: Conducted fieldwork and primary author of National Register nomination.

2007. Mead & Hunt. New Braunfels Outer Loop Constraints Analysis, completed for Turner Collie & Braden (New Braunfels, Texas). Role: Conducted fieldwork and completed report.

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2007. Mead & Hunt. FM 1017 Widening Reconnaissance Survey, completed for Blanton & Associates, Inc (Starr County, Texas). Role: Conducted fieldwork and primary author of report.

2007. Mead & Hunt. North Wayside Drive at Halls Bayou Reconnaissance Survey, completed for Blanton & Associates, Inc (Houston, Texas). Role: Project manager and primary author of report.

2007. Mead & Hunt. Mary Street – Ollie Avenue Intensive Survey, completed for the Texas Department of Transportation (Stephenville, Texas). Role: Primary author of report and conducted fieldwork.

2006. Texas Department of Transportation. Southern Gateway Intensive Survey, completed at the Texas Department of Transportation (Dallas, Texas). Role: Project manager, conducted fieldwork, primary author of report.

2005. Texas Department of Transportation. County-wide Sidewalk Improvement Project Reconnaissance Survey, completed at the Texas Department of Transportation (Hill, Limestone, and Falls Counties, Texas). Role: Conducted fieldwork and primary author of report.

2004. West Virginia Division of Highways. Hampton Truss Bridge Reconnaissance and Intensive Surveys, completed at the West Virginia Division of Highways (Ivanhoe, West Virginia). Role: Project manager, conducted fieldwork, primary author of reports, organized and conducted public meeting.

2004. West Virginia Division of Highways. Delbarton Arch Bridge Individual Section 4(f) Evaluation, completed at the West Virginia Division of Highways (Delbarton, West Virginia). Role: Project manager, conducted fieldwork, primary author of Section 4(f) Evaluation.

2004. Delbarton Arch Bridge Mitigation Documentation Package, completed at the West Virginia Division of Highways (Delbarton, West Virginia). Role: Project manager, conducted fieldwork, primary author of the historic bridge documentation report.

Presentations

"Reinventing Reinforced Concrete: Post-war bridges in Texas." Society of Industrial Archeology Conference, San Jose, California. 2008.

"The Engineers Speak: Oral History Strategies for Bridge Inventory Projects in Texas and Indiana." Society of Industrial Archeology Conference, Philadelphia, Pennsylvania. 2007.

"Historic Bridges." West Virginia Division of Highways Preconstruction Engineering Seminar. Canaan Valley, West Virginia. 2004.

"Section 106: Incorporating the Law into Engineering." West Virginia Division of Highways Preconstruction Engineering Seminar. Canaan Valley, West Virginia. 2003.

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JOSEPH M. SANCHEZ

Education
B.A., Anthropology, University of Texas at Austin, 1984.

Continuing Education
Habitat Management Planning, August 2004
GIS Introduction for Conservation Professionals June 2002
Non-game Species Survey Techniques June 2001
Shorebird Ecology and Management April 2001

Professional Experience
Mr. Sanchez has worked as a professional archeologist for more than 23 years accumulating extensive hands-on field and managerial experience. As a project archeologist, he has participated in and overseen the day-to-day field operations on more than 100 successfully completed projects. He has authored and/or co-authored more than 30 technical reports.

Areas of expertise include:
- All phases of survey, testing and mitigation
- Soil documentation and profiling
- Use of heavy machinery (back-hoe, track-hoe, grade-all) within an archaeological context
- Lithic analysis
- Mapping and site documentation
- Field photography
- Management of field personnel

Blanton & Associates, Inc., 2006 to Present
Project Archeologist. Mr. Sanchez conducts archeological survey, excavation, research, and analysis projects and produces oral and written reports. Mr. Sanchez is very familiar with local, state, and federal preservation laws, including recommendations and guidelines from the Texas Historical Commission and the Council of Texas Archeologists.

Project Archeologist, Moore Archeological Consulting, Inc., Houston, Texas, 1997-2005
Project Archeologist.

Sul Ross State University Center for Big Bend Studies, Alpine, Texas, 1996-1997
Project Archeologist.

Office of the State Archeologist, Texas Historical Commission, Austin, Texas, 1995-1996
Assistant Project Archeologist.

Moore Archeological Consulting, Houston, Texas, 1992-1995
Project Archeologist.

Paul H. Rosendahl, Inc. (PHRI), G.M.F., Guam, 1990-1992
Field Supervisor.

Prewitt and Associates, Inc., Austin, Texas, 1990
Crew Chief.

Texas A&M University Archeological Research Laboratory, College Station, Texas, 1989-1990
Crew Chief.

University of Texas Archeological Research Laboratory, 1989
Archeological Technician.

Prewitt and Associates, Inc., Austin, Texas, 1985-1989
Archeological Technician.

Publications/Project Experience
2012
Archeological Survey of a Proposed Turbine in the Channel Energy Center, Houston, Harris County, Texas. March 26, 2012. Prepared for Channel Energy Center LLC.

Archeological Survey of a Proposed Turbine in the Deer Park Energy Center, Houston, Harris County, Texas. March 26, 2012. Prepared for Deer Park Energy Center LLC.

Intensive Archeological Survey of the Proposed Brushy Creek Wastewater Interceptor Phase II in Williamson County, Texas. March 2012. Prepared

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for Walker Engineering and the City of Hutto. Submitted to Texas Historical Commission.

Intensive Archeological Survey Supplemental Report, US 77 from SH 107 in the City of Combes to SH 44 in the City of Robstown, Cameron, Willacy, Kenedy, Kleberg, and Nueces Counties, Texas. January 2012. Prepared for Texas Department of Transportation and Texas Turnpike Authority Division.

2011

Intensive Archeological Survey of the Proposed Mountain Creek Interceptor Segments MC-7 And MC-8 in the City of Grand Prairie, Dallas and Tarrant Counties, Texas. December 2011. Prepared for Trinity River Authority of Texas and Lockwood, Andrews & Newnam, Inc.

Intensive Archeological Survey of McCombs Street/FM 2529 from US 54 to Just North of FM 2637 in El Paso, El Paso County, Texas. October 2011. Prepared for Texas Department of Transportation El Paso District. Submitted to Texas Historical Commission.

Archeological Survey of FM 407 at Trail Creek in Denton County, Texas. October 2011. Prepared for Texas Department of Transportation Dallas District and Parsons Brinckerhoff. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the Proposed Highland Sewer Line, City of McAllen, Hidalgo County, Texas. October 2011. Prepared for City of McAllen. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the M325 Segment of the Proposed Village Creek Relief Sanitary Sewer Line in Tarrant County, Texas. October 2011. Prepared for the City of Fort Worth. Submitted to Texas Historical Commission.

An Archeological Survey of IH 35 at CR 132, Hays County, Texas. September 2011. Prepared for Texas Department of Transportation Austin District. Submitted to Texas Historical Commission.

Intensive Archeological Survey of the Proposed Rosillo Creek NWWC (SC-15) Project in the City of Kirby, Bexar County, Texas. September 2011. Prepared for Bexar County Flood Control and Pate Engineers, Inc.

Intensive Archeological Survey of the Proposed Schaefer Road Drainage Phase I (CB-19) Project in Northeast Bexar County, Texas. September 2011. Prepared for Bexar County Flood Control.

Intensive Archeological Survey of Old Airport Road at Burgess Creek in Parker County, Texas. September 2011. Prepared for Texas Department of Transportation Fort Worth District, and Aguirre & Fields, LP.

Archeological Testing at 41WB710 and 41WB713 within the Proposed El Pico Water Treatment Plan in the City of Laredo, Webb County, Texas. June 2011. Prepared for the City of Laredo and Dannenbaum Engineering Corporation.

Intensive Archeological Survey of the Proposed Brushy Creek Wastewater Interceptor Phase II in Williamson County, Texas. April 2011. Prepared for Walker Engineering and the City of Hutto. Submitted to Texas Historical Commission.

Intensive Archeological Survey of a Proposed Water Main for the County Road 108 Water Improvement Project, City of Hutto, Williamson County, Texas. April 2011. Prepared for Walker Engineering and the City of Hutto. Submitted to Texas Historical Commission.

Intensive Archeological Survey of a Proposed Wastewater Collection System in the Rosa Azul Subdivision Area, Socorro, El Paso County, Texas. February 2011. Prepared for Moreno Cardenas Inc. Consultign Engineers and Lower Valley Water District. Submitted to Texas Historical Commission.

Intensive Archeological Survey of SH 286 from SH 358 to One Mile South of FM 43 in the City of Corpus Christi, Nueces County, Texas. January 2011. Prepared for Texas Department of Transportation Corpus Christi District.

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Cultural Resources Survey for the Proposed Biggs East Gate Road, El Paso County, Texas. January 2011. Prepared for Texas Department of Transportation El Paso District.

Archeological Survey on SH: 75 from IH 45 to Post Oak Road in the City of Conroe, Montgomery County, Texas. January 2011. Prepared for Texas Department of Transportation Houston District and KBR.

Archeological Survey of FM 3083 from IH 45 to LP 336 in the City of Conroe, Montgomery County, Texas. January 2011. Prepared for Texas Department of Transportation Houston District and TranSystems.

2010

Intensive Archeological Survey of Selected Parts of Loop 1604 from US 90 to IH 35 in the City of San Antonio, Bexar County, Texas. December 2010. Prepared for Alamo Regional Mobility Authority. Submitted to Texas Department of Transportation Environmental Affairs Division.

Spinning Star Wind Ranch and Transmission Line Environmental Report, Upton, Reagan, and Crockett Counties, Texas December 2010. Prepared for Spinning Star Energy, LLC, for U.S. Department of Energy application.

Research Design, Archeological Data Recovery Excavations at Prehistoric Sites 41VV2012 and 41VV2013 in the Del Rio Outer Loop, Val Verde County, Texas. September 29, 2010. Prepared for Texas Department of Transportation Environmental Affairs Division.

Archeological Survey of Lake Falcon County Park and Boat Ramp in the City of Zapata, Zapata County, Texas. September 2010. Prepared for the County of Zapata and the Texas Department of Transportation Pharr District. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of Four Post-review Discoveries within the Del Rio Outer Loop, Val Verde County, Texas. August 2010. Submitted to Texas Department of Transportation Environmental Affairs Division.

Intensive Archeological Survey of the M325 Segment of the Proposed Village Creek Relief Sanitary Sewer Line in Tarrant County, Texas. June 2010.Prepared for the City of Fort Worth. Submitted to Texas Historical Commission.

Intensive Archeological Survey of a Proposed City of Grand Prairie Wastewater Utility Line on U.S. Army Corps of Engineers Property South of Joe Pool Lake in Ellis County, Texas. May 2010. Prepared for City of Grand Prairie and Espey Consultants. Submitted to U.S. Army Corps of Engineers Fort Worth District.

An Intensive Archeological Survey in Hazel Bazemore County Park, Nueces County, Texas. April 2010. Prepared for Nueces County and Olivarri & Associates, Inc. Submitted to the Texas Historical Commission.

An Intensive Archeological Survey of a Proposed Extension to the McCarty Lane Improvement Project from 5,170 Feet East of IH 35 to 6,534 Feet East of IH 35, Hays County, Texas. March 2010. Prepared for the City of San Marcos and KBR, Inc. Submitted to the Texas Historical Commission.

Cultural Resources Survey for the Proposed Expansion of the North McAllen Wastewater Treatment Plant in the City of McAllen, Hidalgo County, Texas. April 2010. Prepared for Dannenbaum Engineering on Behalf of the City of McAllen. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of Two Off-system Bridges in Wise County, Texas. March 2010. Prepared for Texas Department of Transportation Fort Worth District. Submitted to the Texas Historical Commission.

2009

Archeological Survey of a Proposed Bike and Hike Trail along Wonder World Drive in the City of San Marcos, Hays County, Texas. November 2009. Prepared for the City of San Marcos and KBR.

Archeological Survey of McCarty Lane at Cottonwood Creek in the City of San Marcos,

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Hays County, Texas. November 2009. Prepared for City of San Marcos and KBR, Inc.

Interim Report: Archeological and Geoarcheological Investigations for the Proposed El Pico Water Treatment Plant in the City of Laredo, Webb County, Texas. October 2, 2009. Prepared for the City of Laredo. Submitted to the Texas Historical Commission.

Intensive Archeological Survey of SH 242 from IH 45 to US 59 in Montgomery County, Texas. September 2009. Prepared for Texas Department of Transportation Houston District and Transystems.

2008

An Intensive Archeological Survey of IH 45 from Just North of Wintergreen Road to Just South of Pleasant Run Road, Dallas County, Texas. October 2008. Prepared for Texas Department of Transportation Dallas District and Dannenbaum Engineering Corporation.

Archeological Investigations on CR 142 at Stinking Creek in Kent County, Texas. October 2008. Prepared for the Texas Department of Transportation Abilene District. Submitted to the Texas Historical Commission.

Archeological Investigations for Three Off-system Bridge Replacements in Scurry County, Texas. October 2008. Prepared for the Texas Department of Transportation Abilene District. Submitted to the Texas Historical Commission.

Archeological Investigations for the Proposed Deadwood Gas Well in Laguna Atascosa National Wildlife Refuge, Cameron County, Texas. October 2008. Prepared for Sanchez Oil & Gas Corporation. Submitted to Texas Historical Commission.

Archeologial Survey of FM 89 at Elm Creek, Taylor County, Texas. July 2008. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

An Intensive Archeological Survey of US 80 at SH 352 in Dallas County, Texas. June 2008. Prepared for Texas Department of Transportation Dallas District.

Archeological Survey of Military Drive from Market Street to Arnold Boulevard in the City of Abilene, Taylor County, Texas. June 2008. Prepared for Texas Department of Transportation Abilene District.

An Intensive Archeological Survey of the Proposed Old Milwaukee Outfall Pipeline in the City of Laredo, Webb County, Texas. June 2008.

Archeological Survey for the Salado Creek Hike and Bike Trail between Houston Street and Benz-Englemen Road in the City of San Antonio, Bexar County, Texas. May 2008. Prepared for the City of San Antonio and Lockwood Andrews and Newnam.

Archeological Survey of US 277 at Fish Creek in Nolan County, Texas. May 2008. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

An Intensive Archeological Survey of the Colombia Wastewater Treatment Plant in the City of Laredo, Webb County, Texas. January 2008. Prepared for the City Of Laredo.

2007

Archeological Investigations for Three Off-system Bridge Replacements in Fisher County, Texas. November 2007. Prepared for Texas Department of Transportation Abilene District.

An Intensive Archeological Survey for the Proposed Plover Point Boardwalk in Laguna Atascosa National Wildlife Refuge, Cameron County, Texas. November 2007. Prepared for The Friends of Laguna Atascosa and the Laguna Atascosa National Wildlife Refuge.

Cultural Resource Investigations on IH-10 between SH 62 and the Sabine River, Orange County, Texas. August 2007. Prepared for Texas Department of Transporation Beaumont District and CH2M Hill.

An Intensive Archeological Survey for the Proposed US 87 Reliever Route in the City of

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LaMesa, Dawson County, Texas. August 2007. Prepared for Texas Department of Transportation Lubbock District and Parkhill, Smith, & Cooper, Inc. Submitted to Texas Department of Transportation Environmental Affairs Division.

Archeological Investigations for Roadway Widening and Bridge Replacement Construction on FM 685 between US 79 and SH 130, Williamson County, Texas. July 2007. Prepared for Texas Department of Transportation Austin District.

Archeological Testing at Site 41PK248 on the Alabama-Coushatta Indian Reservation, Polk County, Texas. June 2007. Prepared for Comstock Oil and Gas, Inc. Submitted to the Bureau of Indian Affairs, Bureau of Land Management, and Texas Historical Commission.

Archeological Survey for a Proposed Bridge Replacement on US 180 at the North Prong of Hubbard Creek in the City of Albany, Shackelford County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Archeological Investigations on CR 640 at Mulberry Creek in Taylor County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Archeological Investigations on CR 143 at Seale Creek in Nolan County, Texas. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

*Archeological Investigations on US 83 at Salt Fork of the Brazos River and Stinking Creek in Stonewall County, Texa*s. June 2007. Prepared for Federal Highway Administration and Texas Department of Transportation Abilene District.

Archeological Survey on FM 1235 between Buffalo Gap and View, Taylor County, Texas. February 2007. Prepared for Texas Department of Transportation Abilene District.

<u>2006</u>

Interim Report, Archeological Survey for the Proposed Colombia Wastewater Treatment Plant Expansion for the City of Laredo in Webb County, Texas. December 19, 2006. Submitted to Texas Historical Commission.

Cultural Resource Avoidance Measures on Federal Property for the Mercedes Connection Seismic Exploration Project, Cameron and Willacy Counties, Texas. Interim Report. October 9, 2006. Prepared at the Request of the U.S. Fish &Wildlife Service. Submitted to the Texas Historical Commission.

A Class III Archeological Inventory of Two Proposed Well Pads on the Alabama-Coushatta Indian Reservation, Polk County, Texas. July 2006. Prepared for Comstock Oil and Gas, Inc. Submitted to the Bureau of Indian Affairs, Bureau of Land Management, and Texas Historical Commission.

An Archeological Survey of Bicentennial Park and a Proposed Hiking Trail in Sanderson, Terrell County, Texas. March 2006. Prepared for Landgraf, Crutcher and Associates, Inc., and the County of Terrell

<u>Prior</u>

Author of methodological section of an ongoing survey of the San Jacinto Battlegrounds State Park, Houston, Texas. Responsible for originating and implementing survey methods utilizing volunteer metal detectorist. 2004.

Inventory and Assessment of Cultural Resources, Redstone Golf Course Expansion, Harris County, Texas. Report of Investigations No. 300. Moore Archeological Consulting, Inc., Houston, Texas. 2003.

Author of the report on a 416-acre survey within a forested tract bordering Greens Bayou, Harris County, Texas. A total of 70 sites were recorded. 2003.

Archeological Reconnaissance of Upper Fresno Canyon Rim, Big Bend Ranch State Park, Texas. Reports in Contract Archeology No. 1. Center

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For Big Bend Studies, Sul Ross State University, Alpine, Texas. 1999.

A Cultural Resource Survey of a Proposed Ella Boulevard Extension and Floodwater Detention Basin, Harris County, Texas. Report of Investigations No. 315. Moore Archeological Consulting, Inc., Houston, Texas. 2002.

Archeological Survey of 145 Acres Along Greens Bayou, Harris County, Texas. Report of Investigations No. 297. Moore Archeological Consulting, Inc., Houston, Texas. 2001.

Archeological Survey of White Oak Bayou from Cole Creek to West Road, Harris County, Texas. Report of Investigations No. 292. Moore Archeological Consulting, Inc., Houston, Texas. 2000.

Archeological Survey of the Proposed Clear Creek ISD School Site, Galveston, Texas. Report of Investigations No. 282. Moore Archeological Consulting, Inc., Houston, Texas. 2000.

Cultural Resource Survey of a Proposed Greens Bayou Detention Basin, Harris County, Texas. Report of Investigations No. 251. Moore Archeological Consulting, Inc., Houston, Texas. 1999.

Cultural Resource Studies at the 400-Acre Pine Lakes Tract, Northern Harris County, Texas. Report of Investigations No. 241. Moore Archeological Consulting, Inc., Houston, Texas. 1998.

A Cultural Resource Survey of Proposed Seismic Exchange, Inc., Seismic Lines in the Jack Gore Baygall/Neches Bottom Unit of the Big Thicket National Preserve, Hardin and Jasper Counties, Texas. Report of Investigations No. 240. Moore Archeological Consulting, Inc., Houston, Texas. 1998.

Cultural Resource Assessments of Proposed Railway Improvements for the Union Pacific-Southern Pacific Merger Across Texas. Report of Investigations No. 182. Moore Archeological Consulting, Inc., Houston, Texas. 1996.

A Cultural Resource Investigation of the 43-Acre Proposed Clear Creek Regional Detention Basin in Southern Harris County, Texas. Report of Investigations No. 181. Moore Archeological Consulting, Inc., Houston, Texas. 1996.

Author of the report on a thorough reconnaissance survey of select areas within Big Bend Ranch State Park. The survey covered over 1,800 acres and 46 sites were recorded. 1996.

An Archeological Survey of the Proposed Greenhouse Road Expansion Project in Western Harris County, Texas. Report of Investigations No. 170. Moore Archeological Consulting, Inc., Houston, Texas. 1996.

Co-author on the report of a survey of 650 acres within a forested environment around Lake O' The Pines Reservoir. 1996.

A Preliminary Geomorphological and Archeological Assessment of the City of Houston Proposed Northeast Water Purification Plant Site, Harris County, Texas. Report of Investigations No. 145. Moore Archeological Consulting, Inc., Houston, Texas. 1995.

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