

March 10, 2020

Mike Campbell Project Manager David J. Powers & Associates, Inc. 1871 The Alameda, Suite 200 San Jose, California 95126

RE: Cultural Resources Desktop Review for the Proposed El Camino Precise Plan, Santa Clara, California

Dear Mr. Campbell:

Per your request, Albion Environmental, Inc. (Albion) has prepared an archaeological literature search and cultural resource sensitivity assessment for the proposed El Camino Real Precise Plan (Project) for the City of Santa Clara (City). The Project encompasses a 3.9-mile stretch of the El Camino Real including the parcels on either side (Attachment 2: Figure 1). The Project includes constructing areas with greater commercial activity, areas with housing, plazas, and other open areas where residents and visitors can gather comfortably.

The purpose of the cultural resource desktop review is to provide David J. Powers & Associates, Inc. (DJP&A) an inventory of the known and potentially significant cultural resources within the Project Area. The City of Santa Clara contains a large number of precolonial archaeological sites that reflect many thousands of years of Native American land use and residency. The City developed a context for the major historical periods that have shaped the region of California: Spanish explorations and colonization beginning in the year 1769, subsequent Mexican rule after 1822, and later annexation to the United States and Statehood in 1850. The City of Santa Clara figured prominently in these historic and cultural periods. Santa Clara has been the epicenter of cultural transformations and the long legacy of these cultures are manifest in the archaeological resources situated underneath the existing "built environment."

METHODS AND RESULTS

This report was prepared by Chelsea Blackmore, who holds a PhD in Anthropology and has 20 years of archaeology experience and Stella D'Oro, who holds an MA in Applied Anthropology and has been working in California archaeology for 15 years. They meet the Secretary of the Interior's Standards for professionals in both prehistoric and historical archaeology. The records search was requested by Ms. D'Oro in February 2020 (Northwest Information Center at Sonoma State University (NWIC) File No.: 19-1294) (Attachment 1). As part of the NWIC records search, Albion consulted the sources described below to determine whether cultural resources are recorded within or near the Project Area.

1414 Soquel Avenue, Suite 205 Santa Cruz, CA 95062

(831) 469-9128 Santa Cruz (805) 592-2222 San Luis Obispo

CALIFORNIA INVENTORY OF HISTORIC RESOURCES

The California Inventory of Historic Resources is managed by the State of California Department of Parks and Recreation. The inventory lists two historic resources within a $\frac{1}{4}$ -mile of the Project Area:

- Armistice Oak Tree El Camino Real and Lincoln Street (California Landmark #260)
- Morse Mansion 981 Fremont Street Santa Clara

HISTORIC PROPERTY DATA FILE FOR SANTA CLARA COUNTY

The Historic Property Data file for Santa Clara County is managed by the State Office of Historic Preservation (including the California Register of Historical Resources (CRHR) and the National Register of Historical Places (NRHP), and California Historical Landmarks, and California Points of Historical Interest. The data file indicates that two properties are located within a ¹/₄-mile radius of the Project Area.

One property was identified in reconnaissance level survey and is not eligible for listing or designation:

1360 Madison Greek revival Cottage built in 1880-Not eligible

One property was identified in reconnaissance level survey and is listed in NRHP and CRHR:

981 Fremont, Morse Mansion 1892 listed in NRHP and CRHR

ARCHAEOLOGICAL STUDIES

A search of records at NWIC indicated that 21 archaeological studies have been conducted within the Project Area and 19 studies have been conducted within an $^{1}/_{4}$ -mile radius of the Project Area (Tables 1 and 2). The majority of these studies are surveys and reconnaissance studies with very little subsurface testing.

Table 1. Archaeological Studies Conducted Within the Project Area of Potential Effect (APE).

Study No.	Title	Author	Year
S-021339	Pacific Bell Mobile Services: 3755 El Camino Real, Santa Clara, Santa Clara County, Site #SF 565-02 (letter report)	Eleanor H. Derr	1998 (Dec)
S-020538	Cultural Resources Assessment, Pacific Bell Mobile Services Facility SF-565-02, Santa Clara, Santa Clara County, California (letter report)	Barry A. Price	1998 (Apr)

Study No.	Title	Author	Year
S-023631	Cultural Resource Overview for the AT&T San Jose Build, Cities of Redwood City and San Jose, San Mateo and Santa Clara Counties	Melinda Peak and Ann Peak	2000 (Nov)
S-007390	Historic Property Survey Report, Lawrence Expressway High Occupancy Vehicle Lane Project, Between Route 237 and Prospect Road, Santa Clara County, California	no author	1985 (May)
S-032250	Historic Property Survey Report, Mission Bells Project, State Route 82/Interstate 101, San Mateo and Santa Clara Counties, California	Philippe Lapin	2003 (Dec)
S-023631	Cultural Resource Overview for the AT&T San Jose Build, Cities of Redwood City and San Jose, San Mateo and Santa Clara Counties	Melinda Peak and Ann Peak	2000 (Nov)
S-032336	Archaeological, Historical and Cultural Resources Survey Report, Vagabond Inn Personal Communications System Tower Easement, SFA-C07-115C, 3580 El Camino Real, Santa Clara, California 95051	John O. Pouley	2001 (Sep)
S-004181	An Archaeological Reconnaissance of Calabazas Creek (Bayshore Freeway to El Camino Real), North Central Zone, NC-1-Project Number 2010	Rob Edwards	1974 (Apr)
S-023631	Cultural Resource Overview for the AT&T San Jose Build, Cities of Redwood City and San Jose, San Mateo and Santa Clara Counties	Melinda Peak and Ann Peak	2000 (Nov)
S-010831	Cultural Resource Evaluation of the Extension of the Calabazas Creek Flood Control Project in the Cities of Santa Clara and Sunnyvale, County of Santa Clara	no author	1989 (May)
S-022570	Archaeological Survey, San Tomas Aquino/Saratoga Creek Trail Project, Santa Clara County, California	Suzanne Baker	1998 (Jul)
S-004391	An Archaeological Survey of a Portion of Saratoga Creek, Santa Clara County, California	Patricia P. Hickman	1974 (Jun)
S-020539	Cultural Resources Assessment, Pacific Bell Mobile Services Facility SF-567-02, Santa Clara, Santa Clara County, California (letter report)	Barry A. Price	1998 (Mar)
S-045682	San Tomas Aquino Spur Trail Phase 2, El Camino Real to Homestead Road, Caltrans District 04, City of Santa Clara, Santa Clara County, California, 04-SCL CML 5937(197): Historic Properties Survey Report Archaeological Survey Report, Extended Phase I Archaeological Survey Report	Daniel David Shoup	2014

Study No.	Title	Author	Year
S-031425	Historical Evaluation of the Western Motel Signs at 2250 El Camino Real in the City of Santa Clara (letter report)	Robert R. Cartier	2005 (Nov)
S-004952	Historic Properties Survey Report for an Improvement/Realignment of Route 82 in the Cities of Santa Clara and San Jose, Santa Clara County. 04-SCI-82 9.9/12.4, 04220-151141-3FEIS	no author listed	1982 (Jan)
S-004285	El Camino Real and the Second Santa Clara Mission Site: An Impact Assessment (Ref. 04-SCL-82 10.4/12.4, 04230- 151141-30831)	M.J. Moratto, S.A. Dietz, and E. Montizambert	1974 (Jan)
S-023364	Historical Evaluation of the Western Motel Signs at 2250 El Camino Real in the City of Santa Clara (letter report)	Robert R. Cartier	2005 (Nov)
S-018377	Cultural Resource Evaluation of the Santa Clara Pipe Alignment for the South Bay Water Recycling Project	Robert Cartier, Lynne Eckert, Jeanne Goetz, and Jon Reddington	1996 (Mar)
S-045989	Cultural Resource Evaluation of Three Parcels off of Alviso Street in the City of Santa Clara	Robert Cartier	2014 (Oct)
S-032250	Historic Property Survey Report, Mission Bells Project, State Route 82/Interstate 101, San Mateo and Santa Clara Counties, California	Philippe Lapin	2003 (Dec)

Table 2. Archaeological Studies Conducted Within $^{1}/_{4}$ -mile the Project APE.

Study No.	Title	Author	Year
S-006807	Cultural Resource Evaluation of the Saratoga Creek Flood Control Project in the City of Santa Clara, County of Santa Clara	Robert Cartier	1984 (Jul)
S-010831	Cultural Resource Evaluation of the Extension of the Calabazas Creek Flood Control Project in the Cities of Santa Clara and Sunnyvale, County of Santa Clara	no author	1989 (May)
S-011396	Technical Report of Cultural Resources Studies for the Proposed WTG-WEST, Inc., Los Angeles to San Francisco and Sacramento, California: Fiber Optic Cable Project	no author	1989 (Oct)
S-004181	An Archaeological Reconnaissance of Calabazas Creek (Bayshore Freeway to El Camino Real), North Central Zone, NC-1-Project Number 2010	Rob Edwards	1974 (Apr)

Study No.	Title	Author	Year
S-022570	Archaeological Survey, San Tomas Aquino/Saratoga Creek Trail Project, Santa Clara County, California	Suzanne Baker	1998 (Jul)
S-007390	Historic Property Survey Report, Lawrence Expressway High Occupancy Vehicle Lane Project, Between Route 237 and Prospect Road, Santa Clara County, California	no author	1985 (May)
S-010831	Cultural Resource Evaluation of the Extension of the Calabazas Creek Flood Control Project in the Cities of Santa Clara and Sunnyvale, County of Santa Clara	no author	1989 (May)
S-023631	Cultural Resource Overview for the AT&T San Jose Build, Cities of Redwood City and San Jose, San Mateo and Santa Clara Counties	Melinda Peak and Ann Peak	2000 (Nov)
S-023364	Historic Properties Affected or Potentially Affected by the South Bay Water Recycling Program (SBWRP), Phase 2 Master Plan, Tasman Drive Interconnection, SC-2 and SC-4 Segments, Cities of Milpitas and Santa Clara, Santa Clara County (letter report)	·	1999 (Dec)
S-004391	An Archaeological Survey of a Portion of Saratoga Creek, Santa Clara County, California	Patricia P. Hickman	1974 (Jun)
S-048738	California High-Speed Train Project, Environmental Impact Report/Environmental Impact Statement, Draft: San Francisco to San Jose Section, Archaeological Survey Report, Technical Report	Denise Jurich and Amber Grady	2011 (Mar)
S-045682	San Tomas Aquino Spur Trail Phase 2, El Camino Real to Homestead Road, Caltrans District 04, City of Santa Clara, Santa Clara County, California, 04-SCL CML 5937(197): Historic Properties Survey Report Archaeological Survey Report, Extended Phase I Archaeological Survey Report	Daniel David Shoup	2014
S-043525	Draft Inventory and Evaluation of Historic Resources, Caltrain Electrification Program, San Francisco to Gilroy (MP 0.0 to 77.4)	no author	2002 (Jul)
S-026045	Cultural Resources Reconnaissance Survey and Inventory Report for the Metromedia Fiberoptic Cable Project, San Francisco Bay Area and Los Angeles Basin Networks	Richard Carrico, Theodore Cooley, and William Eckhardt	2000 (Mar)
S-22819	Cultural Resources Survey for the Level (3) Communications Long Haul Fiber Optics Project, Segment WSO5: San Jose to San Luis Obispo	Wendy J. Nelson, Maureen Carpenter, and Julia G. Costello	2000 (Jun)

Study No.	Title	Author	Year
S-045989	Cultural Resource Evaluation of Three Parcels off of Alvisto Street in the City of Santa Clara	Robert Cartier	2014 (Oct)
S-023079	South Bay Water Recycling Program, Cultural Resources Program - Closure Report for Archaeological Monitoring, Lafayette Park at Matthew Street to Alviso Street at Franklin Street, City of Santa Clara (letter report)	Stuart Guedon	1999 (Apr)
S-027069	South Bay Water Recycling Program, Cultural Resources Program - Closure Report for Archaeological Monitoring, Lafayette Park at Matthew Street to Alviso Street at Franklin Street, City of Santa Clara (letter report)	Stuart Guedon	1999 (Apr)
S-018377	Cultural Resource Evaluation of the Santa Clara Pipe Alignment for the South Bay Water Recycling Project	Robert Cartier, Lynne Eckert, Jeanne Goetz, and Jon Reddington	1996 (Mar)

CULTURAL RESOURCES

NWIC reports three cultural resources within the Project Area and 12 within a $^{1}/_{4}$ -mile radius of the Project Area (Tables 3 and 4). Of those found in the Project Area, P-43-001797 is a historic structure (Motel Sign), P-43-000468 a historic battle site landmark (1847 Battle of Santa Clara), and P-43-001161a precolonial and historic subsurface deposit.

Table 3. Cultural Resources Within the Project APE.

Resource No.	Resource Name	Last Recorded	Summary of Resource
P-43-001797	Western Motel Sign	Robert Cartier 2005	Historical Evaluation of the Western Motel Sign constructed circa 1959.
P-43-000468	Santa Clara Campaign Treaty Site	Becky Anastasio 1985	Landmark Number 260 marks the location of the Battle of Santa Clara in 1847.
P-43-001161	Washington-El Camino Site	Robert Cartier 1999	Subsurface deposit under a recorded historic structure. Deposit appears to be both turn-of-the-century historic and contains some Mission Period elements (and possible prehistoric remains).

Table 4. Cultural Resources Within $^{1/}{}_4$ -Mile of the Project APE.

Resource No.	Resource Name	Last Recorded	Summary of Resources
P-43-000333	None	Marcia Wire 1978	Burials- No other info present.
P-43-003185	Arne Signs and Decals	Rebecca Loveland, Anastasio, Stuart Guedon 1985	Former residence/business office. The building is a vernacular Colonial Revival Style structure built prior to 1938. This structure is the oldest building visible from Lawrence Expressway, but is neither unique nor distinctive in comparison to other structures of similar vintage in Santa Clara County.
P-43-000485	None	Pierce, Detlefs 1982	Two human burials eroded from streambank. Pocket of midden with no shell, charcoal or bone visible.
P-43-001297	1651 Fremont Street	Franklin Maggi 2002	Original 2 room cottage constructed in 1927 and is located on acreage within the vineyard of the Pierce estate.
P-43-001480	Valenti / Burgos House	K. Oosterhouse, F. Maggi 2003	Single family residence house of vernacular construction, designs within the style of the National Folk House common to the West following the development of the railroad during the latter part of the nineteenth century.
P-43-001238	1277 Lewis Street	Franklin Maggi 2000	This is a single-family residence built Early National style and appears to have been constructed in the 1850's or early 1860's.
P-43-000381	Copeland Morse House	Caroline Nixon, Wm. 1981	The historic name for this structure is the Charles Copeland Morse Residence. It was built in 1892 and is the purest style of Queen Anne architecture.
P-43-001493	1468 Lafayette Street	Robert Cartier 2003	Single story craftsman style bungalow was built circa 1926 and is in good condition.

Resource No.	Resource Name	Last Recorded	Summary of Resources
P-43-001236	1777 Lafayette Street	Leslie A. Dill 1999	An industry specific warehouse with detailing characteristics of the Craftsman era, sitting on .53 acres.
P-43-001237	1191 Reed Street	Franklin Maggi 2001	Single family residence is a single- story craftsman bungalow construction. It was constructed or placed on the site sometime between 1915 and 1921.
P-43-000928	Southern Pacific Railroad	Denise Jurich, Jesse Martinez 2008	A single track, standard gauge railway of the South Pacific Railroad that runs between Gilroy and Hollister.
P-43-003697	1720 Grant St.	Jessica Kusz 2009	Historic industrial/commercial building consisting of four arched wings connected by a small flatroofed wing between two paired units.

P-43-001797 is a California State Landmark (No. 260) that commemorates the signing of a treaty following the Battle of Santa Clara, one of several skirmishes between United States citizens and Mexican-Californian ranchers in January 1847.

P-43-001161 is a subsurface deposit identified under a recorded historic structure. It has been characterized as a privy or dump and contained turn of the century historic-era, mission period, and precolonial remains (mission roof tile, ceramics, cut bone, fire cracked rock, and faunal bone and shell). Given the historic-era elements, it's important to note that Mission Santa Clara is located just beyond the ¼ mile radius of the eastern end of Project Area generally and P-43-001161 specifically.

Those within the $^{1}/_{4}$ -mile radius of the Project Area include 10 historic-era buildings and 2 precolonial sites with associated habitation debris and Native American burials. The two precolonial sites (P P-43-000333 and P-43-000485) are located along Saratoga Creek and are less than 1,000 feet away from the edges of Project Area. They each contain at least one burial, habitation debris, and midden soils. Native American archaeological sites have been recorded in this area of Santa Clara, within a quarter mile of major rivers and creeks; many of which were buried by alluvium or fill. Albion's background research conducted for the current study suggests that, due to past dynamic geological processes, the Project Study Area holds moderate potential to contain buried archaeological deposits in Holocene Alluvial landforms (Far Western Anthropological Research Group 2018).

HISTORIC MAPS

Albion also conducted an online search of historic maps and aerials and found information pertinent to the Project Area from the following (Attachment 2: Figures 2-6):

- 1866 GLO map
- 1876 Santa Clara County Atlas Map
- 1879 GLO Map
- 1899 USGS Map of San Jose
- 1961 USGS Map of San Jose

Based on General Land Office (GLO) maps, by the mid to late 1800s most of the project area was subdivided into at least a dozen unique parcels (see Attachment 2: Figures 2 and 4). On the 1876 map, agricultural fields and structures are clearly scattered along El Camino Road (known as San Francisco Road at the time) increasing in density toward the eastern edge of the project area (see Attachment 2: Figure 3). Extensive development occurs over the next 23 years as illustrated by the 1899 map (see Attachment 2: Figure 5). Over 40 structures are visible on the map within the Project Area and that many more within a $\frac{1}{4}$ -mile radius.

CONCLUSIONS

In summation, the Project Area is low to moderately sensitive to contain historic-era archaeological deposits potentially associated with mission-period structures and those developed in the late-19th and early 20th century with increasing sensitivity toward the eastern end of the Project Area. The Project Area is also moderately sensitive to contain precolonial resources with sensitivity increasing along waterways like Saratoga Creek which passes through the Project Area. Based on these findings, it is Albion's judgment that the majority of development in the Project Area will not cause an adverse effect to historical resources. However, because of the Area's large size, the lack of extensive subsurface studies, and unknown project impacts, it is difficult to accurately characterize historic resources without more information. As such, Albion recommends two additional studies—a geoarchaeological buried sensitivity assessment and a Project-Specific Archaeological Monitoring Plan. These studies are focused on two subsets of the Project Area that may have higher potential sensitivity given their proximity to other resources (Attachment 2: Figure 1). Because two precolonial sites with burials have been identified within a 1,000-feet of the Project Area, we suggest that a geoarchaeological study be conducted along Saratoga Creek vicinity to assess the potential of buried Holocene deposits common to the region (Far Western Anthropological Research Group 2018). Such a study would also assist in the development of an archaeological monitoring plan. A Project-Specific Archaeological Monitoring Plan should be developed and implemented to help guide the Project should any significant archaeological deposits be uncovered during construction. This again would focus on areas along Saratoga Creek as well as the Eastern end of the Project Area (to east of Pierce Street and South of El Camino Real). The plan should

provide detailed guidance for how impact areas should be methodically excavated under the direct supervision of a qualified archaeologist. Moreover, it is Albion's judgement that a qualified archaeologist and a representative from the local Native American community monitor all initial ground-disturbing activities associated with these two areas of potential sensitivity (Attachment 2: Figure 1).

Additionally, Albion recommends that the City conduct Native American consultation under Assembly Bill (AB) 52. As many cultural resources do not necessarily leave an archaeological footprint or have physically identifiable manifestations, it is vital to identify the location of any potential resources through consultation with local tribal members. Under AB 52, the City may have received information from interested Native American tribes or representatives concerning Tribal Cultural Resources at the project site. The City is responsible for collecting and incorporating tribal information into the environmental review process. If buried or previously unrecognized materials are exposed during any construction activity, work should cease within 50 feet of the find until a qualified archaeologist can assess it and provide recommendations.

Sincerely,

Chelsea Blackmore, Ph.D. Senior Archaeologist

Attachment 1. Records Search Results.

Attachment 2. Project Area Map: Figures 1–6

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REFERENCES CITED

Far Western Anthropological Research Group, Inc.

2018 VTA's BART Silicon Valley- Phase II Extension Project: Archaeological Treatment Plan.

Attachment 1

Records Search Results



HUMBOLDT LAKE MARIN MENDOCINO MONTEREY NAPA SAN BENITO

SAN FRANCISCO SAN MATEO SANTA CLATA SANTA CRUZ SOLANO SONOMA YOLO

Northwest Information Center

Sonoma State University 150 Professional Center Drive, Suite E Rohnert Park, California 94928-3609 Tel: 707.588.8455 nwic@sonoma.edu http://www.sonoma.edu/nwic

2/21/2020 NWIC File No.: 19-1294

Stella D'Oro Albion Environmental, Inc. 1414 Soquel Avenue, Suite 205 Santa Cruz, CA 95062

re: El Camino Precise

The Northwest Information Center received your record search request for the project area referenced above, located on the San Jose West & Cupertino USGS 7.5' quads. The following reflects the results of the records search for the project area and a 0.25 mile radius:

Resources within project area:	P-43-001797, 000468, & 001161.
Resources within 0.25 mile radius:	P-43-000333, 003185, 000485, 001297, 001480, 001238, 000381, 001493, 001236, 001237, 000928, & 003697.
Reports within project area:	See enclosed database printout.

Resource Database Printout (list):	\square enclosed	\boxtimes not requested	□ nothing listed
Resource Database Printout (details):	\boxtimes enclosed	\square not requested	□ nothing listed
Resource Digital Database Records:	\square enclosed	\boxtimes not requested	□ nothing listed
Report Database Printout (list):	\square enclosed	\boxtimes not requested	□ nothing listed
Report Database Printout (details):	\boxtimes enclosed	\square not requested	□ nothing listed
Report Digital Database Records:	\square enclosed	\boxtimes not requested	□ nothing listed
Resource Record Copies:	\boxtimes enclosed	\square not requested	□ nothing listed
Report Copies:	\square enclosed	\square not requested	$\hfill\square$ nothing listed
OHP Built Environment Resources Directory:	\square enclosed	\boxtimes not requested	□ nothing listed
Archaeological Determinations of Eligibility:	\square enclosed	\boxtimes not requested	□ nothing listed
CA Inventory of Historic Resources (1976):	\square enclosed	\boxtimes not requested	□ nothing listed
<u>Caltrans Bridge Survey:</u>	\square enclosed	\boxtimes not requested	□ nothing listed
Ethnographic Information:	\square enclosed	\boxtimes not requested	□ nothing listed
Historical Literature:	\square enclosed	\boxtimes not requested	□ nothing listed
Historical Maps:	\boxtimes enclosed	\square not requested	□ nothing listed
Local Inventories:	\boxtimes enclosed	\square not requested	□ nothing listed
GLO and/or Rancho Plat Maps:	\boxtimes enclosed	\square not requested	□ nothing listed
Shipwreck Inventory:	\square enclosed	⊠ not requested	□ nothing listed

*Notes:

** Current versions of these resources are available on-line:

Caltrans Bridge Survey: http://www.dot.ca.gov/hq/structur/strmaint/historic.htm

Soil Survey: http://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateld=CA

Shipwreck Inventory: http://www.slc.ca.gov/Info/Shipwrecks.html

Let us know if you need copies of any reports. The invoice will be kept open until 2/28/20.

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Lisa C. Hagel Researcher

Attachment 2

Project Area Map: Figures 1–6











