

Environmental Resource Inventory

For the City of Austin

Relating to the Land Development Code (LDC) Section 25-8, Title 30-5, ECM 1.3.0 & 1.10.0
 Effective October 28, 2013

1. SITE/PROJECT NAME: _____
2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): _____
3. ADDRESS/LOCATION OF PROJECT: _____
4. WATERSHED: _____

5. THIS SITE IS WITHIN THE *(Check all that apply)*:
- Edwards Aquifer Recharge Zone* *(See note below)*..... YES NO
 Edwards Aquifer Contributing Zone* YES NO
 Edwards Aquifer 1500-ft Verification Zone* YES NO
 Barton Springs Zone* YES NO
**(as defined by the City of Austin – LDC 25-8-2)*

Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?... YES** NO
- If yes, then check all that apply:
- (1) The floodplain modifications proposed are necessary to protect the public health and safety;
 - (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the *Environmental Criteria Manual*, or
 - (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under Section 25-8-261 or 25-8-262 of the LDC.**
 - (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

**** If yes, then a functional assessment must be completed and attached to the ERI (see Section 1.7 and Appendix X in the Environmental Criteria Manual for forms and guidance) unless conditions 1 or 3 above apply.**

7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE?..... YES*** NO

*****If yes, then riparian restoration is required by Section 25-8-261(E) of the LDC and a functional assessment must be completed and attached to the ERI (see Section 1.5 and Appendix X in the Environmental Criteria Manual for forms and guidance).**

8. There is a total of ___ (#'s) Critical Environmental Feature(s)(CEFs) on or within 150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the **CEF WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site *(Please provide the number of CEFs)*:

___ (#'s) Spring(s)/Seep(s) ___ (#'s) Point Recharge Feature(s) ___ (#'s) Bluff(s)
 ___ (#'s) Canyon Rimrock(s) ___ (#'s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from Section 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

- Site Specific Geologic Map with 2-ft Topography**
- Historic Aerial Photo of the Site**
- Site Soil Map**
- Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography**

Only if present on site (Maps can be combined):

- Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone**
(Only if site is over or within 1500 feet the recharge zone)
- Edwards Aquifer Contributing Zone**
- Water Quality Transition Zone (WQTZ)**
- Critical Water Quality Zone (CWQZ)**
- City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage**

10. **HYDROGEOLOGIC REPORT** – Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed):

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)

<p>*Soil Hydrologic Groups Definitions (<i>Abbreviated</i>)</p> <p>A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.</p> <p>B. Soils having a <u>moderate infiltration</u> rate when thoroughly wetted.</p> <p>C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.</p> <p>D. Soils having a <u>very slow infiltration</u> rate when thoroughly wetted.</p> <p>**Subgroup Classification – See <u>Classification of Soil Series</u> Table in County Soil Survey.</p>

Description of Site Topography and Drainage *(Attach additional sheets if needed):*

List surface geologic units below:

Geologic Units Exposed at Surface		
Group	Formation	Member

Brief description of site geology *(Attach additional sheets if needed):*

Wells– Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are ___ (#) wells present on the project site and the locations are shown and labeled

- ___ (#s)The wells are not in use and have been properly abandoned.
- ___ (#s)The wells are not in use and will be properly abandoned.
- ___ (#s)The wells are in use and comply with 16 TAC Chapter 76.

There are ___ (#s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

Brief description of site plant communities *(Attach additional sheets if needed):*

There is woodland community on site YES NO *(Check one).*

If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name

There is grassland/prairie/savanna on site YES NO *(Check one).*

If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name

There is hydrophytic vegetation on site YES NO *(Check one).*

If yes, list the dominant species in table below *(next page):*

Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.

YES NO (Check one).

12. WASTEWATER REPORT – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- On-site system(s)
- City of Austin Centralized sewage collection system
- Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with Chapter 15-12 of Austin City Code and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.

YES NO (Check one).

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.

YES NO Not Applicable (Check one).

Wastewater lines are proposed within the Critical Water Quality Zone?

YES NO (Check one). If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?

YES NO (Check one).

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

City of Austin already supplies wastewater disposal for the site.

13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: 7 August 2014
Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

James Killian, PG

512-328-2430

Print Name

Telephone



james_killian@horizon-esi.com

Signature

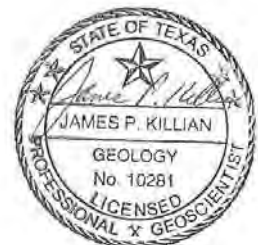
Email Address

Horizon Environmental Services, Inc.

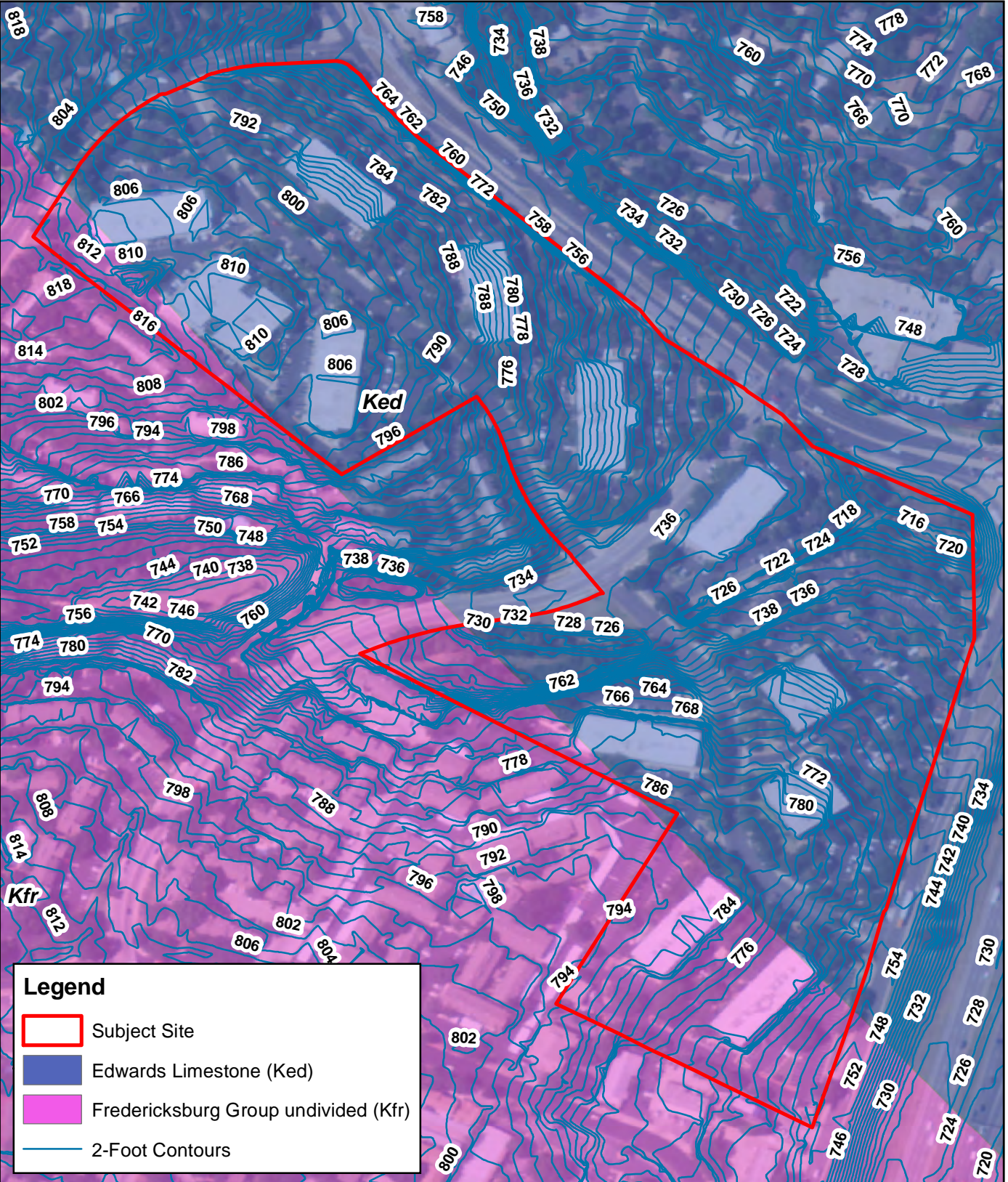
Name of Company

Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).



Attachments



MAP SOURCE: UT-BEG, 1995; COA, 2003; USDA, 2012.

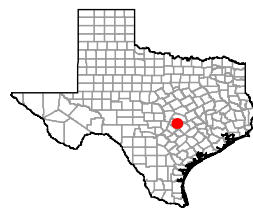
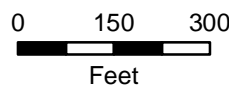



FIGURE 1

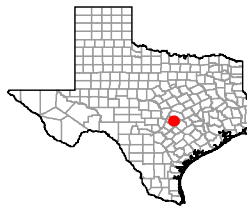
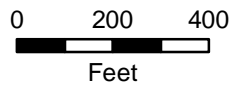
SITE SPECIFIC GEOLOGIC MAP
32-ACRE AUSTIN OAKS PROPERTY
LOCATED AT MOPAC AND
SPICEWOOD SPRINGS ROAD
AUSTIN, TRAVIS COUNTY, TEXAS



Legend

 Subject Site

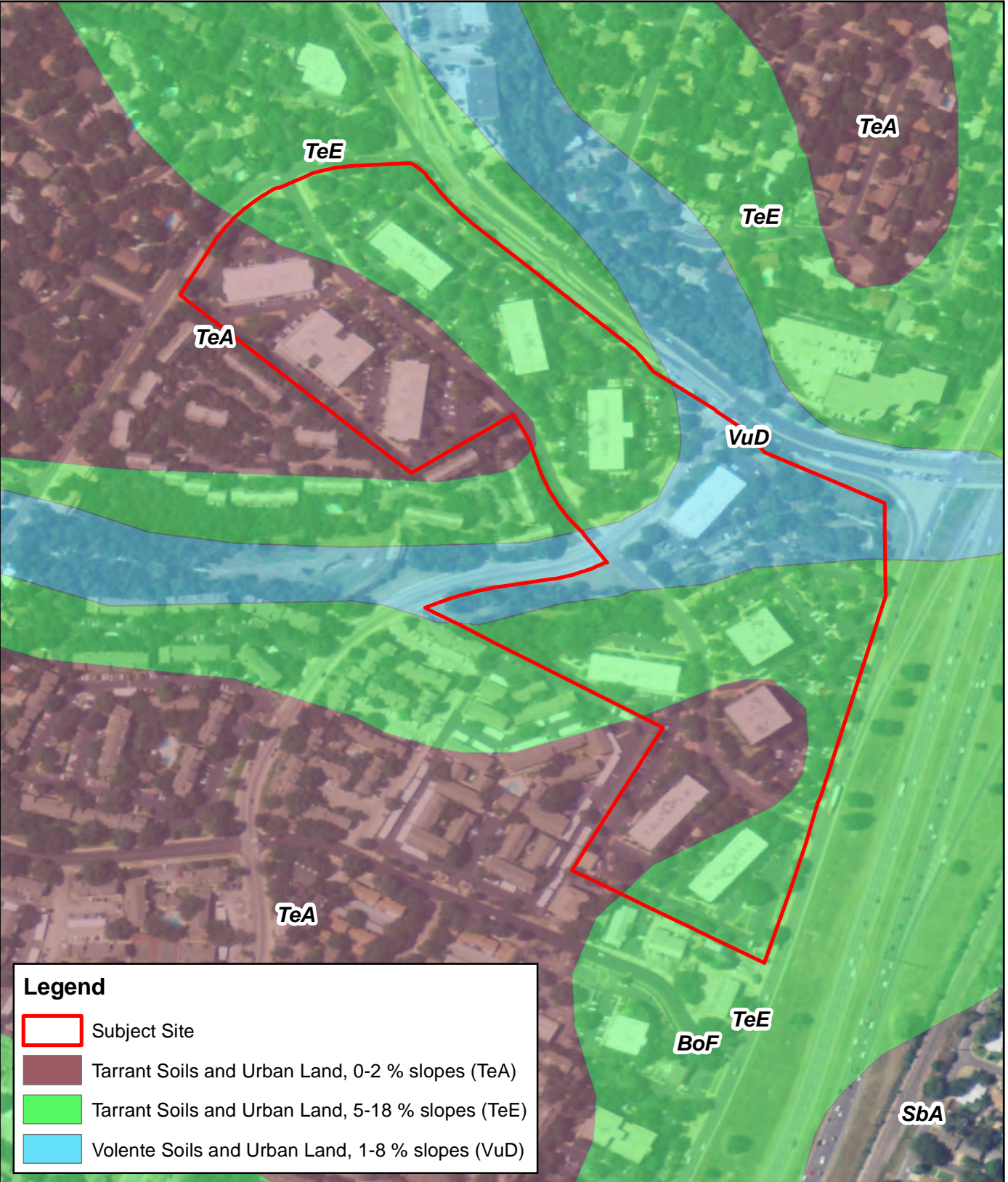
MAP SOURCE: USGS, 1995.







Horizon
Environmental Services, Inc.

FIGURE 2

1995 HISTORICAL PHOTOGRAPH
32-ACRE AUSTIN OAKS PROPERTY
LOCATED AT MOPAC AND
SPICEWOOD SPRINGS ROAD
AUSTIN, TRAVIS COUNTY, TEXAS



Legend

-  Subject Site
-  Tarrant Soils and Urban Land, 0-2 % slopes (TeA)
-  Tarrant Soils and Urban Land, 5-18 % slopes (TeE)
-  Volente Soils and Urban Land, 1-8 % slopes (VuD)

MAP SOURCE: USDA, 2012; NRCS, 2014.

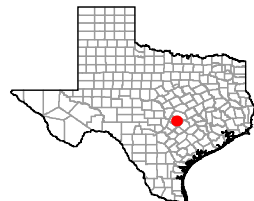
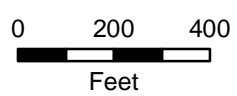


FIGURE 3

SITE SOILS MAP
32-ACRE AUSTIN OAKS PROPERTY
LOCATED AT MOPAC AND
SPICEWOOD SPRINGS ROAD
AUSTIN, TRAVIS COUNTY, TEXAS



MAP SOURCE: COA, 2003; USDA, 2012.

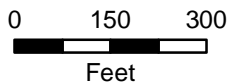
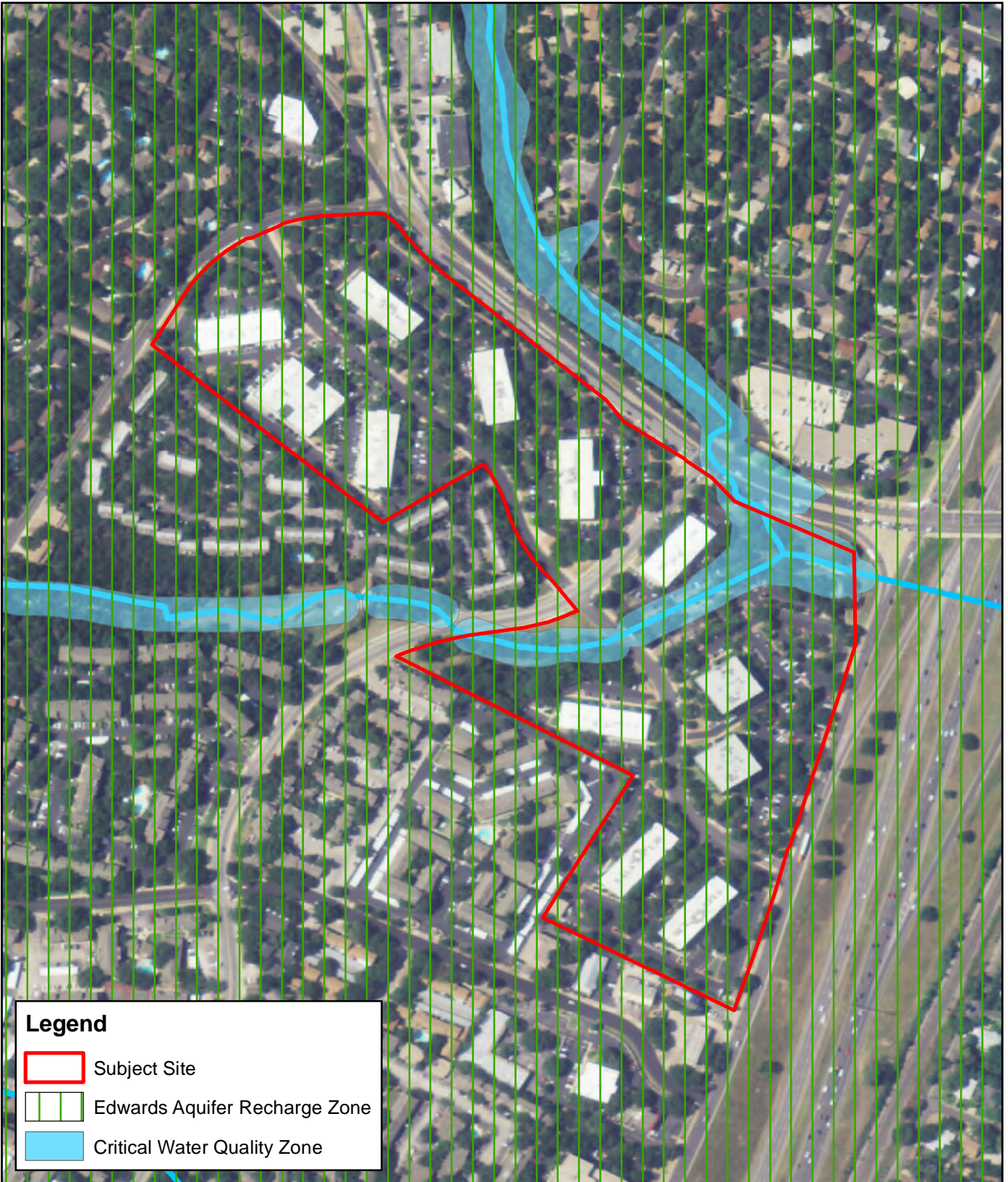


FIGURE 4

CRITICAL ENVIRONMENTAL FEATURES
32-ACRE AUSTIN OAKS PROPERTY
LOCATED AT MOPAC AND
SPICEWOOD SPRINGS ROAD
AUSTIN, TRAVIS COUNTY, TEXAS



MAP SOURCE: COA, 2003; USDA, 2012.



0 150 300
Feet

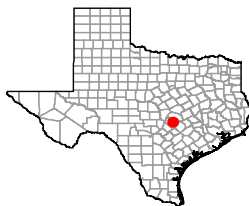


FIGURE 5

EDWARDS AQUIFER RECHARGE ZONE AND
CRITICAL WATER QUALITY ZONE MAP
32-ACRE AUSTIN OAKS PROPERTY
LOCATED AT MOPAC AND
SPICEWOOD SPRINGS ROAD
AUSTIN, TRAVIS COUNTY, TEXAS



PHOTO 1
Rim Rock along Creek



PHOTO 2
Rim Rock along Creek