

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 1, 2017

Mr. Jeff Bair
Second Crossing Campground, LLC
16825 1-35 North
Selma, Texas 78154

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: ~~Second Crossing Campground~~ Located at 6515 River Road; New Braunfels, Texas

TYPE OF PLAN: ~~Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213~~ Edwards Aquifer

Regulated Entity No. RN109696567; Additional ID No. 13000359

Dear Mr. Bair:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by Moeller & Associates on behalf of Second Crossing Campground, LLC on March 10, 2017. Final review of the WPAP was completed after additional material was received on May 4, 2017, and May 24, 2017. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the ~~proposed project and pollution abatement measures are hereby approved~~ subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The commercial project has an area of approximately 2.16 acres. It includes a well house, three buildings, a concrete pad, asphalt driveway, and a retaining wall. The impervious cover is 0.22 acres (10.19 percent). According to a letter dated May 1, 2017, signed by Robert Boyd, P.E., with

Comal County, the site in the development is conditionally acceptable for the use of on-site sewage facilities.

PERMANENT POLLUTION ABATEMENT MEASURES

This small business will not have more than 20 percent impervious cover.

GEOLOGY

According to the geologic assessment included with the application, the site is located on the Dolomitic member and Basal Nodular member of the Kainer Formation. Four manmade features and one geologic feature with one manmade feature classified as sensitive (well) was assessed by the project geologist in the assessment. The San Antonio Regional Office site assessment conducted on April 26, 2017 revealed that the site was generally as described in the application.

SPECIAL CONDITIONS

- I. The applicant requested a waiver to the requirement for other permanent BMPs for this commercial project because the development will have less than 20 percent impervious cover. Based on the TCEQ's Review of the proposed activities and the site conditions, the required waiver is hereby granted. If the percent of impervious cover ever increases above 20 percent or the land use changes, the exemption for the whole site as described in the Water Pollution Abatement Plan may no longer apply and the property owner must notify the San Antonio Regional Office of these changes.
- II. The applicant is hereby advised that the after-the-fact approval of the WPAP application, as provided by this letter, shall not absolve the applicant of any violations of TCEQ rules related to this project.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.

5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
13. One well exists on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and

Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.

14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

Mr. Jeff Bair
June 1, 2017
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This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Monica Reyes of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4012.

Sincerely,



Lynn Bumguardner, Water Section Manager
San Antonio Region
Texas Commission on Environmental Quality

LB/MR/eg

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Shane Klar, P.E., Moeller & Associates
Mr. Robert Camareno, City of New Braunfels
Mr. Thomas Hornseth, P.E., Comal County
Mr. Roland Ruiz, Edwards Aquifer Authority
Mr. H.L. Saur, Comal Trinity Groundwater Conservation District

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
09/25/2017 03:44:33 PM
CHRISTY 6 Page(s)
201706043699



Bobbie Koepp



Deed Recordation Affidavit
Edwards Aquifer Protection Plan

THE STATE OF TEXAS §

County of Comal §

BEFORE ME, the undersigned authority, on this day personally appeared Jeff Bair who, being duly sworn by me, deposes and says:

- (1) That my name is Jeff Bair/Second Crossing Camp and that I own the real property described below.
- (2) That said real property is subject to an EDWARDS AQUIFER PROTECTION PLAN which was required under the 30 Texas Administrative Code (TAC) Chapter 213.
- (3) That the EDWARDS AQUIFER PROTECTION PLAN for said real property was approved by the Texas Commission on Environmental Quality (TCEQ) on 6/1/2017.

A copy of the letter of approval from the TCEQ is attached to this affidavit as Exhibit A and is incorporated herein by reference.

- (4) The said real property is located in Comal County, Texas, and the legal description of the property is as follows: 2.1594 Acres in Lewis P. Whiting Survey No. 2 A-656

LANDOWNER-AFFIANT

SWORN AND SUBSCRIBED TO before me, on this 2 day of June, 2017

NOTARY PUBLIC

THE STATE OF Texas §

County of Comal §

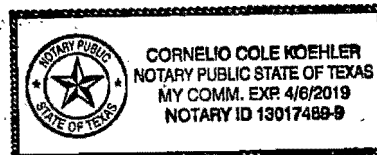
BEFORE ME, the undersigned authority, on this day personally appeared Jeffrey Bair known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 2 day of June, 2017

NOTARY PUBLIC

Cornelio Cole Koehler
 Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 04/06/2019





May 3, 2017

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program
Attn: Monica Reyes
14250 Judson Rd
San Antonio TX 78233-4480

RE: **Second Crossing Campground; located at 6515 River Road; New Braunfels, Texas.**

Plan Type: Request for approval of a Water Pollution Abatement Plan (WPAPMOD); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer; Regulated Entity No. RN109696567; Additional ID No. 13000359

This letter is in response to the fax received 04/27/2017 from The Texas Commission on Environmental Quality/ Edwards Aquifer Protection Program Division as it pertains to the Second Crossing Campground Project. The comments received are in italics and our responses are in bold.

Water Pollution Abatement Plan Application (TCEQ-0584)

- Attachment C: please provide suitability letter from Comal County.*
Attachment C, a suitability letter from Comal County, has been provided. Please see attached documents.

Permanent Stormwater Section (TCEQ-0600)

- Attachment A: please provide documentation showing Second Crossing Campground, LLC meets small business status, and any parent company must meet small business status as well.*
Attachment A, documentation showing Second Crossing Campground, LLC meets small business status has been provided. Please see attached documents.

Please accept these comments and revisions for the referenced project. If you need additional information or have any questions, please do not hesitate to contact me.

Sincerely,

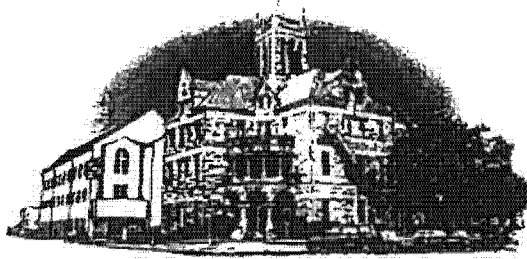
Shane Klar, P.E.
Attachments



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MAY 16 2017

COUNTY ENGINEER



Comal County

OFFICE OF COMAL COUNTY ENGINEER

May 1, 2017

Mr. Shane Klar, P.E.
Moeller & Associates
Via e-mail: shaneklar@ma-tx.com

Re: Second Crossing Camp On-Site Sewage Facility Suitability Letter, within Comal County, Texas

Dear Mr. Klar:

In accordance with TAC §213.5(b)(4)(F)(ii), Comal County has found that the entire referenced site (except for areas listed below) is suitable for the use of private sewage facilities and will meet the special requirements for on-site sewage facilities located on the Edwards Aquifer recharge zone as specified in TAC §285.40-42 based on the following information submitted to our office on May 1, 2017:

- The Geologic Assessment prepared by Raba Kistner Environmental, Inc.
- The Water Pollution Abatement Plan prepared by Moeller & Associates

Areas that are not Suitable

The Geologic Assessment identified 1 recharge feature as sensitive. Below is a list of said sensitive feature:

Feature ID	Latitude	Longitude
S-1	29° 46'36.3"	98° 9'35.3"

In accordance with TAC §285.91, Table X, Minimum Required Separation Distances for soil absorption systems, unlined ET beds, surface application (edge of spray area), and drip irrigation disposal systems are not suitable within 150' of these sensitive features. Furthermore, tanks, lined ET beds and sewer pipe with watertight joints are not allowed within 50' of these sensitive features.

Finally, according to TAC §285.42(a), if any recharge feature, not listed above, is discovered during construction of an OSSF, all regulated activities near the feature shall be suspended immediately. The owner shall immediately notify the TCEQ San Antonio office of the discovery of the feature. All activities regulated under TAC §213 shall not proceed near the feature until Comal County, in conjunction with the TCEQ San Antonio office, has reviewed and approved a plan proposed to protect the feature, the structural integrity of the OSSF, and the water quality of the aquifer. The plan shall be sealed, signed, and dated by a professional engineer.

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Comal County
OFFICE OF COMAL COUNTY ENGINEER

Mr. Klar
May 1, 2017
Page 2

If you have any questions or need additional information, please do not hesitate to contact our office.

Sincerely,



Robert Boyd, P.E.
Comal County Assistant Engineer

cc: Jen Crownover, Comal County Commissioner Precinct No. 4

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MAY 16 2017

FILED
In the Office of the
Secretary of State of Texas

FEB 03 2016

Corporations Section

**CERTIFICATE OF FORMATION
OF
SECOND CROSSING CAMPGROUND, LLC**

The undersigned, acting as the sole organizer of a limited liability company under the Texas Business Organizations Code (the "Code"), does hereby adopt the following Certificate of Formation for SECOND CROSSING CAMPGROUND, LLC (the "Company"):

ARTICLE ONE

The name of the Company is **SECOND CROSSING CAMPGROUND, LLC**.

ARTICLE TWO

The period of its duration is perpetual, unless the Company dissolves in accordance with the provisions of its regulations.

ARTICLE THREE

The purpose for which the Company is formed is for the transaction of any or all lawful purposes for which a limited liability company may be organized under the Texas Business Organizations Code.

ARTICLE FOUR

The initial registered agent is an individual resident of the state whose name is JEFFREY L. GIROUARD. The business address of the registered agent and the registered office address is 4030 South Main Street, Pearland, Texas 77581.

ARTICLE FIVE

The limited liability company will not have managers. The Company will be governed by its members, and the name and address of each initial member are set forth below.

RD MOBILE HOMES, LLC, (Jeffrey L. Girouard, Managing Member), 4030 South Main Street, Pearland, TX 77581.

SAVELL PROPERTY MANAGEMENT, LLC, (T. Mark Savell, Member), 23899 W. Highway 6, Alvin, TX 77511.

PING PROPERTIES, LLC, (David Gallo, Member), 1219 County Road 146, Alvin, TX 77511.

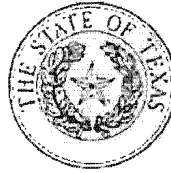
JEFFREY F. BAER, 25839 White Eagle Drive, San Antonio, TX 78260.

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COUNTY ENGINEER

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697



Carlos H. Cascos
Secretary of State

Office of the Secretary of State

February 04, 2016

Jerry B. Dozier, PLLC
PO Box 2128
Alvin, TX 77512 USA

RE: SECOND CROSSING CAMPGROUND, LLC
File Number: 802384019

It has been our pleasure to file the certificate of formation and issue the enclosed certificate of filing evidencing the existence of the newly created domestic limited liability company (llc).

Unless exempted, the entity formed is subject to state tax laws, including franchise tax laws. Shortly, the Comptroller of Public Accounts will be contacting the entity at its registered office for information that will assist the Comptroller in setting up the franchise tax account for the entity. Information about franchise tax, and contact information for the Comptroller's office, is available on their web site at <http://window.state.tx.us/taxinfo/franchise/index.html>.

The entity formed does not file annual reports with the Secretary of State. Documents will be filed with the Secretary of State if the entity needs to amend one of the provisions in its certificate of formation. It is important for the entity to continuously maintain a registered agent and office in Texas. Failure to maintain an agent or office or file a change to the information in Texas may result in the involuntary termination of the entity.

If we can be of further service at any time, please let us know.

Sincerely,

Corporations Section
Business & Public Filings Division
(512) 463-5555

Enclosure

Phone: (512) 463-5555
Prepared by: Jean Marchione

Come visit us on the internet at <http://www.sos.state.tx.us/>
Fax: (512) 463-5709
TID: 10285

Dial: 7-1-1 for Relay Services
Document: 653912050002

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ARTICLE SIX

The name and address of the organizer is JEFFREY L. GIROUARD, 4030 South Main Street, Pearland, TX 77581.

ARTICLE SEVEN


The Members of the Company, in their sole discretion, shall have the power, on behalf of the Company, to indemnify persons for whom indemnification is permitted by applicable Texas law, to the fullest extent permissible under applicable Texas law, and may purchase such liability, indemnification and/or other similar insurance as the Members from time to time shall deem necessary or appropriate, in their sole discretion.

ARTICLE EIGHT

This document becomes effective when the document is filed by the Secretary of State.

The undersigned affirms that the person designated as registered agent has consented to the appointment. The undersigned signs this document subject to the penalties imposed by law for the submission of a materially false or fraudulent instrument and certifies under penalty of perjury that the undersigned is authorized to execute the filing instrument.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation in duplicate originals on this 29th day of January, 2016.



JEFFREY L. GIROUARD
Organizer

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COUNTY ENGINEER

**MEMBERS RESOLUTION
ADOPTED BY
UNANIMOUS WRITTEN CONSENT**

We, RD MOBILE HOMES, LLC, SAVELL PROPERTY MANAGEMENT, LLC, PING PROPERTIES, LLC and JEFFREY R. BAIR, members of **SECOND CROSSING CAMPGROUND, LLC**, a Texas Limited Liability Company organized under the Texas Business Organizations Code, being all the members of such Company as presently constituted, do by this writing consent to take the following actions and adopt the following resolutions:

RESOLVED,

*To Form Company 25% ownership between
Jeff Girouard, TM Savell, David Gallo, &
Jeff Bair - Second Crossing Campground, LLC.*

This consent is executed pursuant to Sections 6.201 and 101.359 of the Texas Business Organizations Code and Article 5.06(d) of the Company Agreement which authorize the taking of action by the Members by unanimous written consent without a meeting.

DATED as of Feb 3rd, 2016.

PING PROPERTIES, LLC

By: David A. Gallo
DAVID A. GALLO
Member

RD MOBILE HOMES, LLC

By: Jeffrey L. Girouard
JEFFREY L. GIROUARD
Member

SAVELL PROPERTY MANAGEMENT, LLC

By: Jeffrey R. Bair
JEFFREY R. BAIR
Member

By: T. Mark Savell
T. MARK SAVELL
Member

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Certificate of Resolutions

Date: February 16, 2016

Company: Second Crossing Campground, LLC

Date of Adoption: February 16, 2016

We, the members of the Company, a Texas limited liability company, certify that we have custody of the records of the Company and that we are authorized to execute and deliver this certificate of resolutions on behalf of the Company. We further certify as follows:

1. The resolutions below were duly adopted as of the Date of Adoption by written consent of the members of the Company as required by law and the operating agreement of the Company. The resolutions have not been amended, modified, or rescinded and are now in full force and effect.

"Be it resolved, that any one individual member set out below are hereby authorized to execute, in the name of the limited liability company notices, leases, bills of exchange, warranties, contracts, deeds, promissory notes and deeds of trust, and other papers and instruments in connection with any real property transactions including, but not limited to the purchase and/or sale of the property known as Second Crossing Campground, and make such contracts as the ordinary conduct of the limited liability company business may require without further authorization of the other three members.

2. We further certify that the Company is duly organized and existing under the laws of the state of Texas and is in good standing; that no proceeding is pending for the termination of the certificate of formation of the Company or for the winding up or termination, voluntary or involuntary, of the Company; that there is no provision of the company agreement or certificate of formation of the Company limiting the powers of the members or managers of the Company to adopt the resolutions referred to above and that the resolutions are in conformity with the provisions of the company agreement and the certificate of formation of the Company; that the undersigned is the keeper of the records and minutes of the proceedings of the Company; and that the following persons constitute all of the members of the Company:

1. David A. Gallo
2. Jeffrey L. Girouard
3. T. Mark Savell
4. Jeffrey F. Bair



David A. Gallo,

Member of Second Crossing Campground, LLC

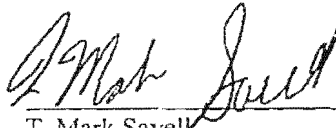
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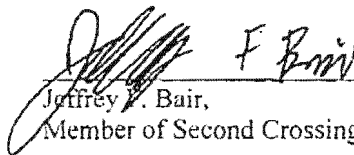
COUNTY ENGINEER



Jeffrey L. Girouard,
Member of Second Crossing Campground, LLC



T. Mark Savell,
Member of Second Crossing Campground, LLC



Jeffrey V. Bair,
Member of Second Crossing Campground, LLC

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COUNTY ENGINEER

**CONSENT CERTIFICATE OF ACTION BY MEMBERS IN LIEU OF
ORGANIZATIONAL MEETING OF MEMBERS OF
SECOND CROSSING CAMPGROUND, LLC
A TEXAS LIMITED LIABILITY COMPANY**

We, the undersigned, being all of the Members of **SECOND CROSSING CAMPGROUND, LLC**, a Limited Liability Company (the "Company") organized under the laws of the State of Texas, consent to and adopt the following resolutions as the actions of the members of Company in lieu of a formal or organizational meeting.

1. CERTIFICATE OF FORMATION

Members have been informed that the original Certificate of Formation (the "Certificate") has been filed in the Office of the Secretary of State of Texas on February 3, 2016. A copy of the Certificate has been provided to the Members, who are hereby directed to insert the copy in the Minute Book of the Company. A copy is attached as Exhibit "A." After review, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that the Members are instructed to insert a copy of the Certificate of Organization, as certified by the Secretary of State, in the Minute Book of Company.

2. COMPANY AGREEMENT

The Members have been presented with a proposed Company Agreement (the "Agreement") a copy of which is attached to this Certificate as Exhibit "B." After inspection and review, we hereby unanimously consent to and adopt the following resolutions:

RESOLVED, that the Agreement attached to this Consent Certificate as Exhibit "B" is adopted as the Agreement of the Company; and

RESOLVED FURTHER, that the Managing Member is instructed to insert a copy of the Agreement in the Minute Book of the Company.

3. COMPANY SEAL

The Members have been presented with a Company Seal. After inspection, we hereby unanimously consent to and adopt the following resolution:



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MAY 16 2017

COUNTY ENGINEER

RESOLVED, that the Company Seal containing the words "SECOND CROSSING CAMPGROUND, L.L.C., A Texas Limited Liability Company" together with the year of organization of Company as shown by the impression thereof on the margin of this page, is hereby adopted as the Seal of Company.

4. CERTIFICATES OF MEMBERSHIP INTEREST

The Members have been presented with a proposed form of Certificate of Membership Interest to be used by Company for its Membership Interests. The proposed form of Certificate of Membership Interest is attached to this Consent Certificate as Exhibit "C" and incorporated in this Consent Certificate by this reference. After inspection, we hereby unanimously consent to and adopt the following resolutions:

RESOLVED, that the Certificates of Membership Interest representing Membership Interests in Company shall be in substantially the same form as the form of certificate attached to this Consent Certificate as Exhibit "C."

RESOLVED FURTHER, that each Certificate of Membership Interest shall be consecutively numbered beginning with number 1, shall be issued only with the signature of one of the Members of the Company as provided in the Agreement and the Company Seal affixed thereto:

RESOLVED FURTHER, that each Certificate of Membership shall state the name of Company, the laws of the state under which Company is organized, the name of person to whom issued, date of issue of the certificate, and the number of unit interests represented thereby:

RESOLVED FURTHER, that each Certificate of Membership shall contain a statement of designations, preferences, qualifications, limitations, restrictions and special or relative rights of the holder on the face or back of the certificate or in lieu thereof Company shall furnish the statement as a separate document to the holder upon request without charge; and

RESOLVED FURTHER, that the Managing Member is instructed to insert a blank Certificate of Membership Interest adopted hereby as a specimen in the Minute Book of Company immediately following these minutes.

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MAY 16 2017

COUNTY ENGINEER

5. COMPANY MINUTE BOOK

The Members wish to maintain a Minute Book of Company for the purpose of collecting and having all of the important documents of Company readily available. Accordingly, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that Company shall obtain and maintain a Minute Book of Company, which shall include the Articles and any amendments thereto, and the Regulations and any amendments thereto, the minutes of all meetings (or consents in lieu of meetings) of Members of Company and all other important Company documents.

6. MANAGERS

The Members do not wish to elect certain persons as managers of Company. Accordingly, we hereby unanimously decline to do so.

7. PRINCIPAL PLACE OF BUSINESS IN STATE OF ORGANIZATION

The Members wish to designate a principal place of business in Texas. Accordingly, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that the principal place of business in the State of Texas of Company is as follows:

4030 South Main Street, Pearland, TX 77581.

8. RESIDENT AGENT IN STATE OF ORGANIZATION

The Members wish to designate a Registered Agent in Texas. Accordingly, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that as provided in the Certificate of Formation, we confirm that the name and address of the Registered Agent of Company within the State of Texas shall be as follows:

Name: JEFFREY L. GIROUARD
Address: 4030 S. Main Street, Pearland, TX 77581

9. BANK RESOLUTIONS

The Members have discussed management of the fiscal affairs of Company and we have decided to provide for the deposit of the funds of Company and authorize certain officers to deal with those funds. Accordingly, we hereby unanimously consent to and adopt the following resolutions:

RESOLVED, that **RD MOBILE HOMES, LLC, SAVELL PROPERTY MANAGEMENT, LLC, PING PROPERTIES, LLC and JEFFREY F. BAER**, as Members, and/or anyone whom they may unanimously designate, jointly and/or individually, are hereby authorized to do the following acts:

- (a) To designate one or more banks, trust companies, or other similar institutions as depositories of the funds, including without limitation, cash and cash equivalents of Company;
- (b) To open, keep and close general and special bank accounts, including general deposit accounts, payroll accounts and working fund accounts with any such depository;
- (c) To cause to be deposited in such accounts with any such depository, from time to time, such funds, including without limitations, cash and cash equivalents of Company as such officers deem necessary or advisable, and to designate or change the designation of manager(s), officer(s) and agent(s) of Company who would be authorized to make such deposits and to endorse checks, drafts or other instruments for such deposits;
- (d) **From time to time, to designate or change the designation of manager(s), officer(s) and members(s) of this limited liability company who will be authorized to sign or countersign checks, drafts or other orders for the payment of money issued in the name of Company against any funds deposited in any of such accounts, and to REVOKE any such designation;**
- (e) To authorize the use of facsimile signatures for the signing or countersigning of checks, drafts or other orders for the payment of money, and to enter into such agreements as banks and trust companies customarily require as a condition for permitting the use of facsimile signatures;
- (f) To make such general and special rules and regulations with respect to such accounts as such managers or officers may deem necessary or advisable; and

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- (g) To complete and execute printed blank signature card forms in order to conveniently exercise the authority granted by this resolution, and any resolutions printed thereon shall be deemed adopted as a part hereof.

RESOLVED FURTHER, that all form resolutions required by any such depository as presented to and considered by such managers or officers prior to the execution of this Consent Certificate are hereby adopted in such forms utilized by the depository, and **RD MOBILE HOMES, LLC** is hereby authorized to certify such resolutions as having been adopted by the Members and is directed to attach such forms to this Consent Certificate as Exhibit "D" and insert the forms of such resolutions in the Company Minute Book along with this Certificate; and

RESOLVED FURTHER, that any such depository to which a copy of these resolutions, certified by **RD MOBILE HOMES, LLC**, shall have been delivered shall be entitled to rely thereon for all purposes until it shall have received written notice of the revocation or amendment of these resolutions by the Members of Company.

10. PAYMENT OF EXPENSES OF ORGANIZATION

The Members desire to reimburse costs incurred for the organization of Company. Accordingly, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that the Members are authorized and directed to cause Company to pay the expenses of its organization and to reimburse the persons advancing funds to Company.

11. OFFER TO ISSUE MEMBERSHIP INTERESTS

The Members desire to offer and issue Membership Interests for consideration. Accordingly, we hereby unanimously consent to and adopt the following resolutions:

RESOLVED, that it is deemed to be in the best interest of Company to issue and sell one hundred percent of Membership Interests to the persons for the amounts of consideration set forth below:

NAME MEMBERSHIP	PERCENTAGE SHARE OF MEMBERSHIP INTERESTS	CONSIDERATION
RD MOBILE HOMES, LLC	25.0 %	Contribution of Cash
SAVELL PROP. MGMT., LLC	25.0 %	Contribution of Cash
PING PROPERTIES, LLC	25.0 %	Contribution of Cash
JEFFREY R. BAIR	25.0 %	Contribution of Cash

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CONTRIBUTIONS OF CASH

RESOLVED FURTHER, Company accepts as consideration for the Membership Interest of each member mentioned above, the cash described in Exhibit "E."

CONTRIBUTIONS OF PERSONAL PROPERTIES

RESOLVED FURTHER, Company accepts as consideration for the Membership Interest of each member mentioned above, the personal property interests described in Exhibit "F."

CONTRIBUTIONS OF REAL PROPERTIES

RESOLVED FURTHER, Company accepts as consideration for the Membership Interest of each Member mentioned above, the real property interests, if any, described in Exhibit "G."

ASSUMPTION OF DEBTS AND OBLIGATIONS

RESOLVED FURTHER, Company assumes the debts and obligations of each Member described in Exhibit "H" as consideration for the interest of each Member.

12. ISSUANCE OF MEMBERSHIP INTERESTS

The Members having received acceptances of their offers of Membership Interests and desire to issue Membership Interests. Accordingly, we unanimously consent to and adopt the following resolutions:

RESOLVED, that Company issue the above indicated Membership Interests to the persons named above in exchange for the consideration listed above;

RESOLVED FURTHER, that the Members are hereby authorized and instructed to sell and issue to the persons named above the percentage share of Membership Interests indicated above upon receipt of the amounts of consideration indicated; and

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RESOLVED FURTHER, that the Members are authorized and directed to take all actions that may be necessary and proper for Company to issue and sell the Membership Interests to the persons named, in accordance with applicable laws, and that those actions shall include, where necessary:

- (a) Doing all acts that may be necessary under the federal securities laws and the securities laws of any other state, including Texas, if advised by legal counsel preparing, verifying and filing or causing to be prepared, verified and filed on behalf of the limited liability company, with the Securities and Exchange Commission five copies of a Notice of Sales of Securities (Form D) not later than fifteen (15) days after the sale and issuance of the membership interests described above and at such other times as are required by Rule 503 of Regulation D in order to establish the applicability of one of the exemptions provided by Regulation D for such sale and issuance; and
- (b) Doing all acts necessary to expedite these transactions or conform them, or any of them, to the requirements of any applicable law, ruling, or regulation.

13. FEDERAL TAX MATTERS

The Members desire to authorize certain tax matters. Accordingly, we hereby unanimously consent to and authorize the following resolutions:

APPOINTMENT OF TAX MATTERS MEMBER

RESOLVED, that **RD MOBILE HOMES, LLC**, by and through **JEFFREY L. GIROUARD**, Managing Member, is appointed as the "Tax Matters Member".

FEDERAL TAX IDENTIFICATION NUMBER

RESOLVED, that the Tax Matters Member is hereby authorized and directed to complete, execute, and file or to have completed, executed and filed the Federal Form SS-4, "APPLICATION FOR EMPLOYER IDENTIFICATION NUMBER."

ADOPTION OF ACCOUNTING METHOD

RESOLVED FURTHER, that the Tax Matters Member is authorized and directed to maintain the financial records of Company on the basis of the cash method of accounting.

ADOPTION OF TAX ACCOUNTING PERIOD

RESOLVED FURTHER, that the Tax Matters Member is authorized and directed to use the taxable year of the members having a majority interest in profits and capital.

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14. OTHER NECESSARY ACTS

The Members desire to authorize all other acts necessary to complete the organizational process. Accordingly, we hereby unanimously consent to and adopt the following resolution:

RESOLVED, that RD MOBILE HOMES, LLC is authorized and directed to make such filings and applications and to execute and deliver such documents and instruments and to do such acts and obtain such licenses, authorizations, and permits as are necessary or desirable for Company to conduct its business, to fulfill legal requirements applicable to Company or its business, to complete the organization of Company or its qualification to do business wherever it does or desires to do business, and to take any other action necessary or advisable to carry out the purposes of this resolution.

This Consent Certificate may be executed by all of the Members in any number of counterparts, all of which when executed and delivered shall have the force and effect of an original, and shall be effective as of the date the Certificate of Formation was filed with the Secretary of State.

MEMBERS

RD MOBILE HOMES, LLC

By: 

JEFFREY L. GIROUARD
Member


JEFFREY R. BAIR
Member

MEMBERS

SAVELL PROPERTY MANAGEMENT, LLC

By: 

T. MARK SAVELL
Member

PING PROPERTIES, LLC

By: 

DAVID A. GALLO
Member

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Bryan W. Shaw, Ph.D., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 10, 2017

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MAR 15 2017

Mr. Thomas H. Hornseth, P.E.
Comal County Engineer
195 David Jonas Drive
New Braunfels TX 78132-3710

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County

PROJECT NAME: **Second Crossing Campground and RV Park.**, located at 6515 River Road, New Braunfels, Texas

PLAN TYPE: Application for Approval of a **Water Pollution Abatement Plan (WPAP) 30**
Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program

Dear Mr. Hornseth:

The referenced application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval. More information regarding this project may be obtained from the TCEQ Central Registry website at http://www.tceq.state.tx.us/permitting/central_registry/.

Please forward your comments to this office by April 10, 2017.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact the San Antonio Region Office at (210) 490-3096.

Sincerely

A handwritten signature in blue ink, appearing to read "Todd Jones".

Todd Jones, Water Section Work Leader
San Antonio Regional Office

TJ/eg

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TCEQ-R13 (EAPP)

COUNTY ENGINEER MAR 10 2017

SAN ANTONIO

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.
3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or if not withdrawn the application will be denied and the application fee will be forfeited.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the effected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

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Please fill out all required fields below and submit with your application.

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1. Regulated Entity Name: Second Crossing Camp				2. Regulated Entity No.: COUNTY ENGINEER			
3. Customer Name: Jeff Bair				4. Customer No.:605189562			
5. Project Type: (Please circle/check one)	New	Modification		Extension		<u>Exception</u>	
6. Plan Type: (Please circle/check one)	<u>WPAP</u>	CZP	SCS	UST	AST	EXP	EXT
7. Land Use: (Please circle/check one)	Residential	<u>Non-residential</u>			8. Site (acres):		2.16
9. Application Fee:	\$4,000.00	10. Permanent BMP(s):			No		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks):			1		
13. County:	Comal	14. Watershed:			Middle Guadalupe / Guadalupe River		

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Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	—
Region (1 req.)	—	—	—
County(ies)	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	<input checked="" type="checkbox"/> X	—	—	—
Region (1 req.)	—	<input checked="" type="checkbox"/> X	—	—	—
County(ies)	—	<input checked="" type="checkbox"/> X	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Trinity-Glen Rose	<input checked="" type="checkbox"/> X Edwards Aquifer Authority	<input type="checkbox"/> Kinney	<input type="checkbox"/> EAA <input type="checkbox"/> Medina	<input type="checkbox"/> EAA <input type="checkbox"/> Uvalde
City(ies) Jurisdiction	<input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park	<input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input checked="" type="checkbox"/> X New Braunfels <input type="checkbox"/> Schertz	NA	<input type="checkbox"/> San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Shane Klar, PE

Print Name of Customer/Authorized Agent



3/9/18

Signature of Customer/Authorized Agent

Date

FOR TCEQ INTERNAL USE ONLY			
Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

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WATER POLLUTION ABATEMENT PLAN

FOR

Second Crossing Camp

PREPARED FOR

Texas Commission on Environmental Quality

Region 13 – San Antonio
14250 Judson Road
San Antonio, Texas 78233
210-490-3096 (office)
210-545-4329 (fax)

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PREPARED BY



F-13351

Shane Klar, P.E.
2021 SH 46W, Ste. 105
New Braunfels, TX 78132
Office: 830.358.7127

Prepared
March 9, 2017



General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Shane Klar, P.E.

Date: 03/09/2017

Signature of Customer/Agent:



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Project Information

1. Regulated Entity Name: Second Crossing Camp
2. County: Comal
3. Stream Basin: Guadalupe River
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:
 - ☒ Recharge Zone
 - ☐ Transition Zone
6. Plan Type:
 - ☒ WPAP
 - ☐ SCS
 - ☐ Modification

- ☐ AST
- ☐ UST
- ☐ Exception Request

7. Customer (Applicant):

Contact Person: Jeff Bair

Entity: Second Crossing Campground LLC

Mailing Address: 16825 I-35 North

City, State: Selma, Texas

Zip: 78154

Telephone: 214-878-2305

FAX: _____

Email Address: jebair@sunbeltrentals.com

8. Agent/Representative (If any):

Contact Person: Shane Klar, P.E.

Entity: Moeller & Associates

Mailing Address: 2021 SH 46W, Ste. 105

City, State: New Braunfels, TX

Zip: 78132

Telephone: 830-358-7127

FAX: 830-515-5611

Email Address: shaneklar@ma-tx.com

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9. Project Location:

- ☐ The project site is located inside the city limits of New Braunfels.
- ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of New Braunfels.
- ☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The project site is located at the second crossing on River Road, approximately 5.3 miles up River Road from the Shell gas station on Loop 337. From Sattler, it is 8.5 miles south down River Road.

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
- ☒ Project site boundaries.
 - ☒ USGS Quadrangle Name(s).
 - ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
 - ☒ Drainage path from the project site to the boundary of the Recharge Zone.
13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☒ Survey staking will be completed by this date: 3/10/16

14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☐ Offsite areas
- ☒ Impervious cover
- ☐ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☐ Area(s) to be demolished

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15. Existing project site conditions are noted below:

- ☒ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

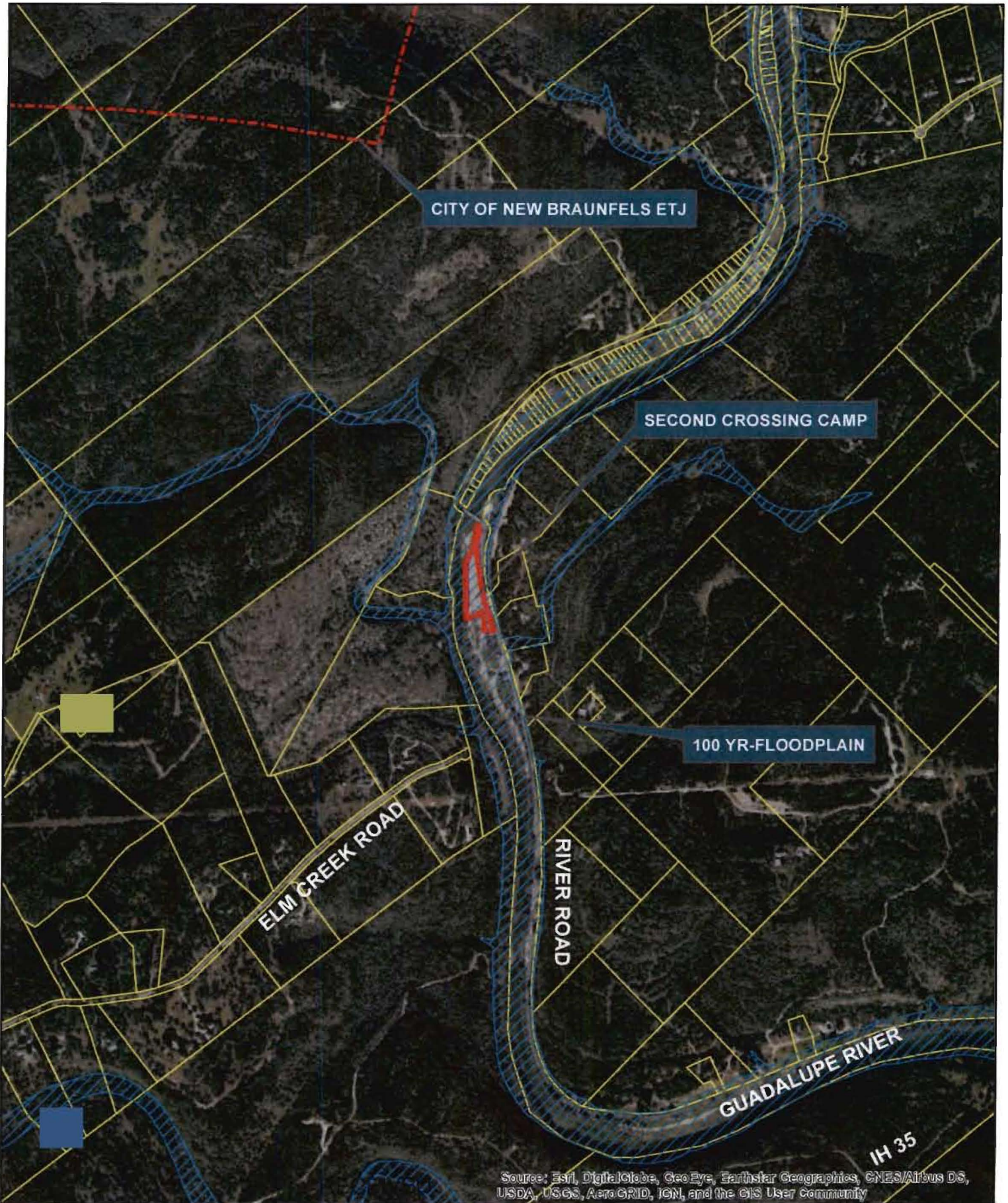
MAR 15 2017

- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and COUNTY ENGINEER
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - ☒ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - ☐ A request for an extension to a previously approved plan.
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- ☐ TCEQ cashier
 - ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 - ☒ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.





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SECOND CROSSING CAMP
ATTACHMENT "A" LOCATION MAP
MAR 13 2011

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PROJECT SITE

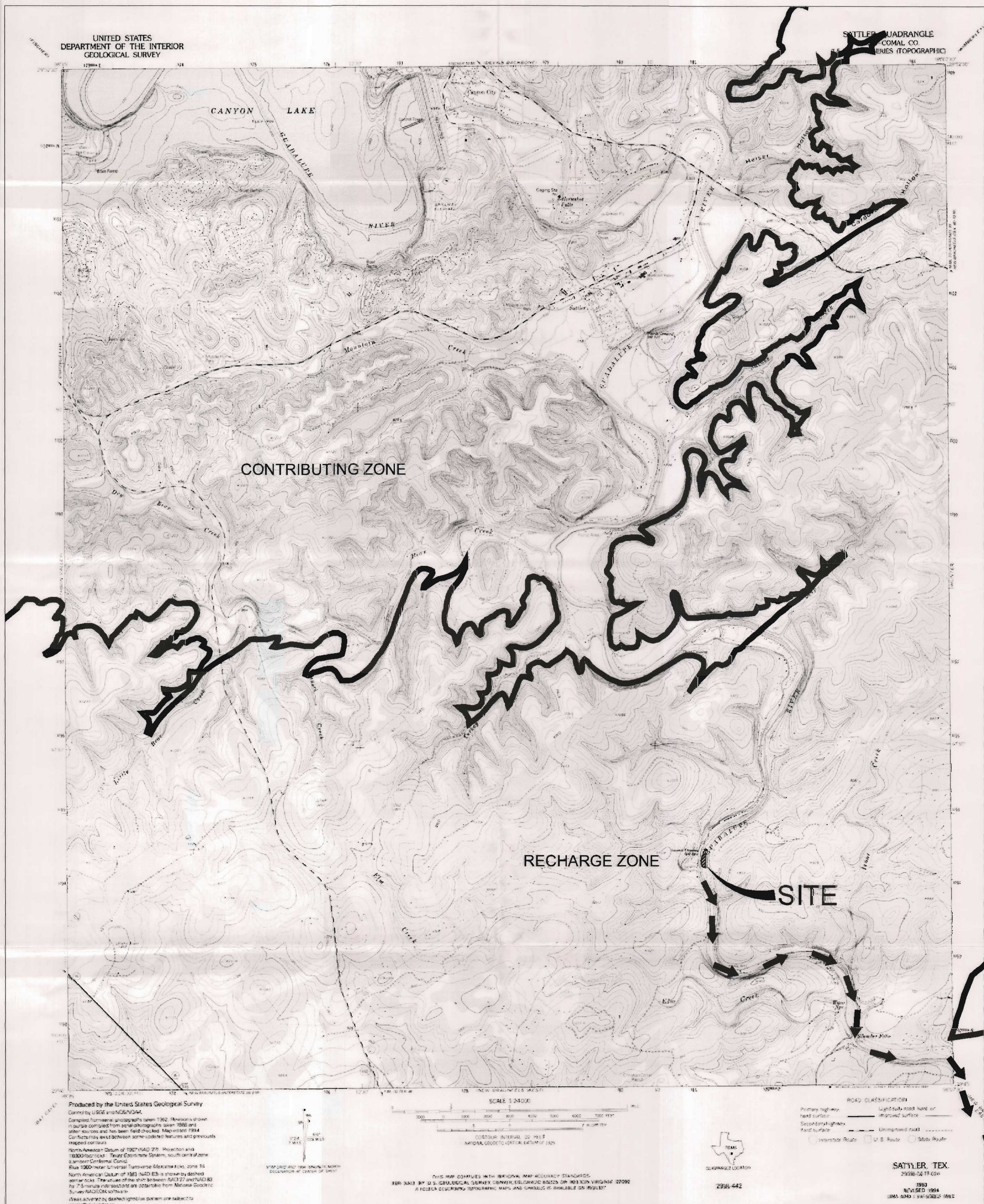
Legend
Project Site
HYDR_Floodplain100
Parcels

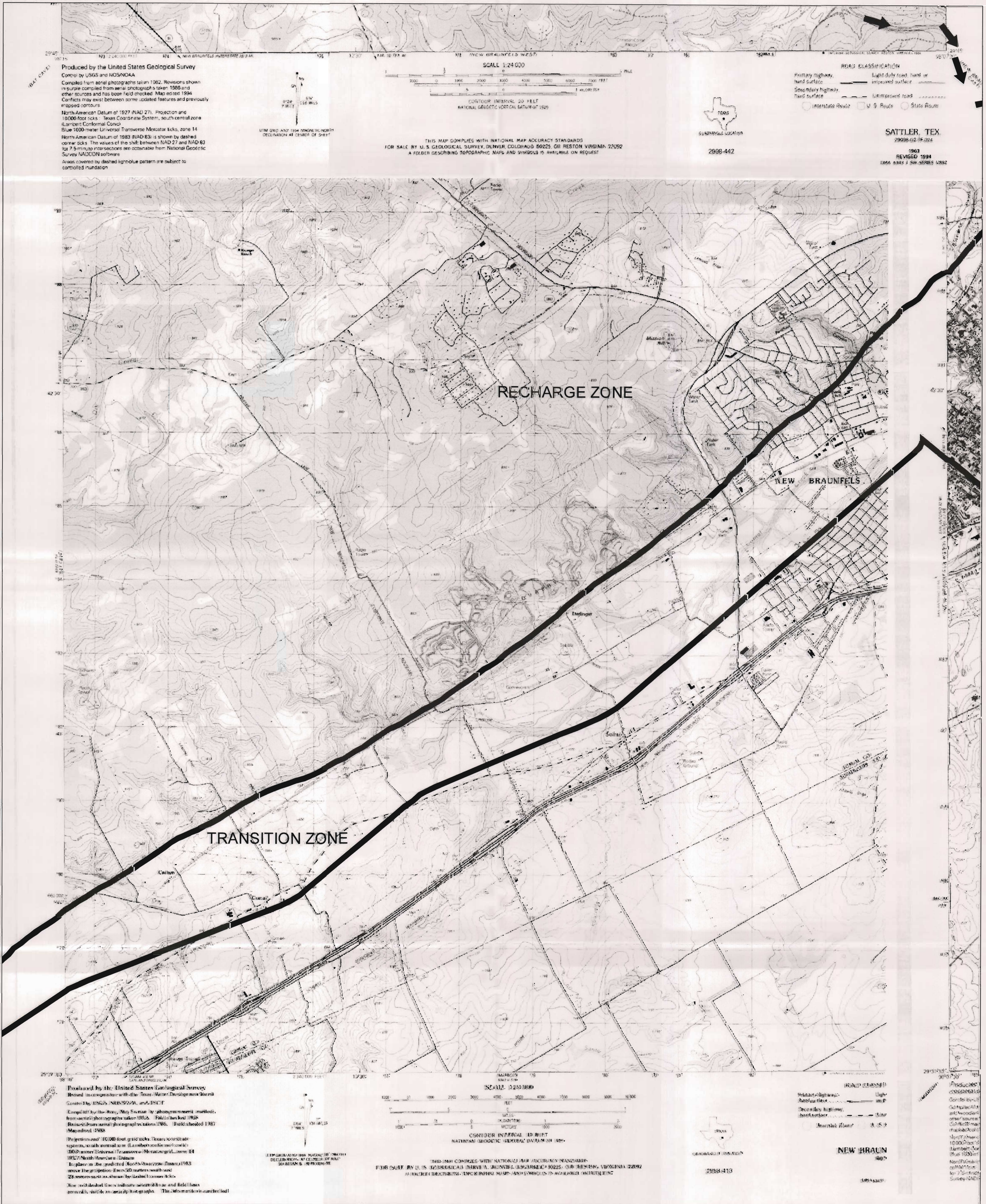
Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China

MOELLER & ASSOCIATES
Engineering Solutions

1 inch = 180 feet

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ATTACHMENT "C"
Project Description

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The proposed site is an RV park and campground located on a 2.16 acre lot along River Road, just below the second crossing of River Road and the Guadalupe River. The entire site contains 0.22 acres of impervious cover (10.19%). The lot is located within the New Braunfels extra-territorial jurisdiction approximately 5.3 miles up River Road from the Shell gas station on Loop 337. Going south from Sattler, it is 8.5 miles south down River Road. The site is currently cleared and includes above ground improvements: well house, three cinder block buildings, concrete pad, existing asphalt and retaining walls.

According to the Flood Insurance Rate Map No. 48091C0270F with an effective date of September 2, 2009 the site is located within the 100 year flood plain. The entire site drains to the Guadalupe River. The building's roof runoff, concrete pad and asphalt paving will not be captured or treated. The quality of water upon exiting should not adversely affect the downstream drainage patterns as the property is being requested exempt from the use of temporary and permanent BMPs since it contains less than 20% impervious cover.

The existing use for the project is nearly 2 acres of RV campground space. No other planned uses are proposed for the site.

There is no proposed construction at this time. In the pursuit of permit for the private, onsite septic tank, it was discovered that there was no Water Pollution Abatement Plan on file for this development. These documents outline the current, permanent conditions contributing to water pollution.

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Geologic Assessment

Texas Commission on Environmental Quality

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For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Richard V. Klar, P.G.

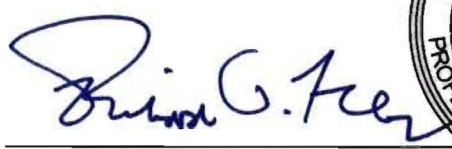
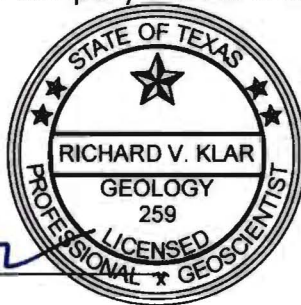
Telephone: 210-699-9090

Date: September 26, 2016 (Revised February 14, 2017)

Fax: 210-699-6426

Representing: Raba Kistner Environmental, Inc., TBPG Firm #50220 / TBPE Firm #3257 for Moeller & Associates (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Regulated Entity Name: Second Crossing Camp

Project Information

1. Date(s) of Geologic Assessment was performed: March 8, 2016, June 14, 2016, August 10, 2016, and February 2, 2017

2. Type of Project:

- ☒ WPAP
☐ SCS

- ☐ AST
☐ UST

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3. Location of Project:

- ☒ Recharge Zone
☐ Transition Zone
☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A – Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness (feet)
Eckrant-Rock Outcrop complex, steep (ErG)	D	2 - 3 ft.

**Soil Group Definitions (Abbreviated)*

- A. Soils having a high infiltration rate when thoroughly wetted.
B. Soils having a moderate infiltration rate when thoroughly wetted.
C. Soils having a slow infiltration rate when thoroughly wetted.
D. Soils having a very slow infiltration rate when thoroughly wetted

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thickness is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1":400'.

Applicant's Site Plan Scale: 1" = 40'

Site Geologic Map Scale: 1" = 40'

Site Soils Map Scale (if more than 1 soil type): 1" = 100'

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Method of collecting positional data:

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☒ Global Positioning System (GPS) technology.

☐ Other method(s). Please describe method of data collection: ____

9. ☒ The project site boundaries are clearly shown and labeled on the Site Geologic Map.
10. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.
11. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
12. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
13. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☒ There is 1 (#) well (test hole) present on the project site and the location is shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☐ The wells are not in use and comply with 16 TAC Chapter 76.
- ☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

- ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

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ATTACHMENTS

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ATTACHMENT A

**GEOLOGIC ASSESSMENT TABLE
(TCEQ-0585-TABLE)**

**COMMENTS TO GEOLOGIC
ASSESSMENT TABLE**

SOIL PROFILE

SITE SOILS MAP

GEOLOGIC ASSESSMENT TABLE						PROJECT NAME: Second Crossing Camp, New Braunfels, Comal County, Texas (RKEI Project No. ASF16-032-00)														
LOCATION			FEATURE CHARACTERISTICS										EVALUATION				PHYSICAL SETTING			
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11	12	
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)	TOPOGRAPHY	
						X	Y	Z								<40	>40		<1.6	>1.6
S-1	N29 46 36.3	W98 09 35.3	MB (WW)	30	Qal / Kek	0.5	0.5	~100.0					N	35	65		✓	✓		Floodplain
S-2	N29 46 37.1	W98 09 35.5	MB (ST)	30	Qal / Kek	10.0	5.0	~5.0					X	6	36	✓		✓		Floodplain
S-3	N29 46 36.8	W98 09 36.0	MB (BST)	30	Qal / Kek	10.0	5.0	~5.0					X	6	36	✓		✓		Floodplain
S-4	N29 46 37.2	W98 09 36.8	F	20	Qal / Kek	190.0	10.0		NE/SW	10			F	8	38	✓		✓		Floodplain
S-5	N29 46 35.5	W98 09 35.0	MB (ST)	30	Qal / Kek	10.0	5.0	~5.0					X	6	36	✓		✓		Floodplain

* DATUM: NAD 83
 Features: WW = water well, ST = septic tank, BST - backfilled septic tank
 Formations: Qal = Quaternary Alluvium, Kek = Kainer Formation

2A TYPE	TYPE	2B POINTS	8A INFILLING
C	Cave	30	N None, exposed bedrock
SC	Solution cavity	20	C Coarse - cobbles, breakdown, sand, gravel
SF	Solution-enlarged fracture(s)	20	O Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fault	20	F Fines, compacted clay-rich sediment, soil profile, gray or red colors
O	Other natural bedrock features	5	V Vegetation. Give details in narrative description
MB	Manmade feature in bedrock	30	FS Flowstone, cements, cave deposits
SW	Swallow hole	30	X Other materials: Backfill soils (site-derived alluvial soils).
SH	Sinkhole	20	
CD	Non-karst closed depression	5	
Z	Zone, clustered or aligned features	30	
			12 TOPOGRAPHY
			Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Natural Resource Conservation Commission's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.
 My signature certifies that I am qualified as a geologist as defined by 30 TAC 213.

Richard V. Klar



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COMMENTS TO GEOLOGIC ASSESSMENT TABLE
Second Crossing Camp
New Braunfels, Comal County, Texas

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The locations of the following features are indicated on the *Site Geologic Map*, which is provided as Attachment D of this report.

Manmade Features

Feature S-1 (MB-Water Well):



Feature S-1 consists of a domestic water well located approximately 40 feet southwest of the onsite restroom facility for the campground. The well is completed with steel casing approximately 6-inches in diameter and is inferred to be installed through the alluvial soils and into the underlying Edwards Aquifer (i.e., Kainer Formation) to depths on the order of 100 feet. A submersible pump associated with the well is connected to a tank inside the pump house. The well is currently in use and supplies water for the campground operations.

Information pertaining to the well was not available from the campground staff or from the Texas Water Development Board (TWDB) Water Information Integration and Dissemination (WIID) system. Review of the WIID system indicates the presence of other water-supply wells completed in the Edwards Aquifer northwest of the SITE to similar depths.

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Feature S-2 (MB-Septic System):



Feature S-2 consists of an active septic system associated with the onsite restroom facility. The dimensions of the septic system could not be determined on the basis of field observations but are inferred to be on the order of 10 x 5 feet in plan view. The vent pipes associated with the septic system are located across from the restroom facility, adjacent to River Road. The construction details are unknown, but, based on industry standards, the typical length and width of a 1,000-gallon tank is 4 feet. The tank excavation may therefore penetrate the top of the underlying Kainer Formation, which is estimated to be present at depths on the order of 4 - 5 feet.

Feature S-3 (MB-Former Septic System):



Feature S-3 consists of a former septic system tankpit reportedly associated with a former restroom facility for the campground. Based on observations and discussions with onsite personnel, the septic tank was decommissioned and backfilled. The photograph depicts the reported location of the former septic tank.

Although construction details are unknown, the tankpit dimensions are inferred to be similar to the existing system (i.e., **Feature S-2**). It is possible that the base of the tankpit may extend to the underlying Kainer Formation.

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Geologic Feature

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Feature S-4 (F):



Feature S-4 consists of an inferred fault trending northeast-southwest crossing the southern portion of the subject property. This fault was mapped based upon review of published geologic references to include Collins (2000) and limited field evidence.

Although no indications of the fault were observed at the SITE owing to alluvial cover, the presence of the fault was inferred by observed geomorphology in additions to changes in rock conditions observed on the adjacent cliff west of the SITE (represented on the **Site Geologic Map** by a solid line). It is inferred that this feature serves to facilitate minor internal

displacement within the Kainer Formation.

Manmade Feature

Feature S-5 (MB-Septic System):



Feature S-5 consists of an active septic system associated with the onsite restroom facility. Similar to **Feature S-2**, the dimensions of the septic system could not be determined on the basis of field observations but are inferred to be on the order of 10 x 5 feet in plan view. The constructions details are unknown, but, based on industry standards, the typical length and width of a 1,000-gallon tank is 4 feet. The tank excavation may therefore penetrate the top of the underlying Kainer Formation, which is estimated to be present at depths on the order of 4 - 5 feet.

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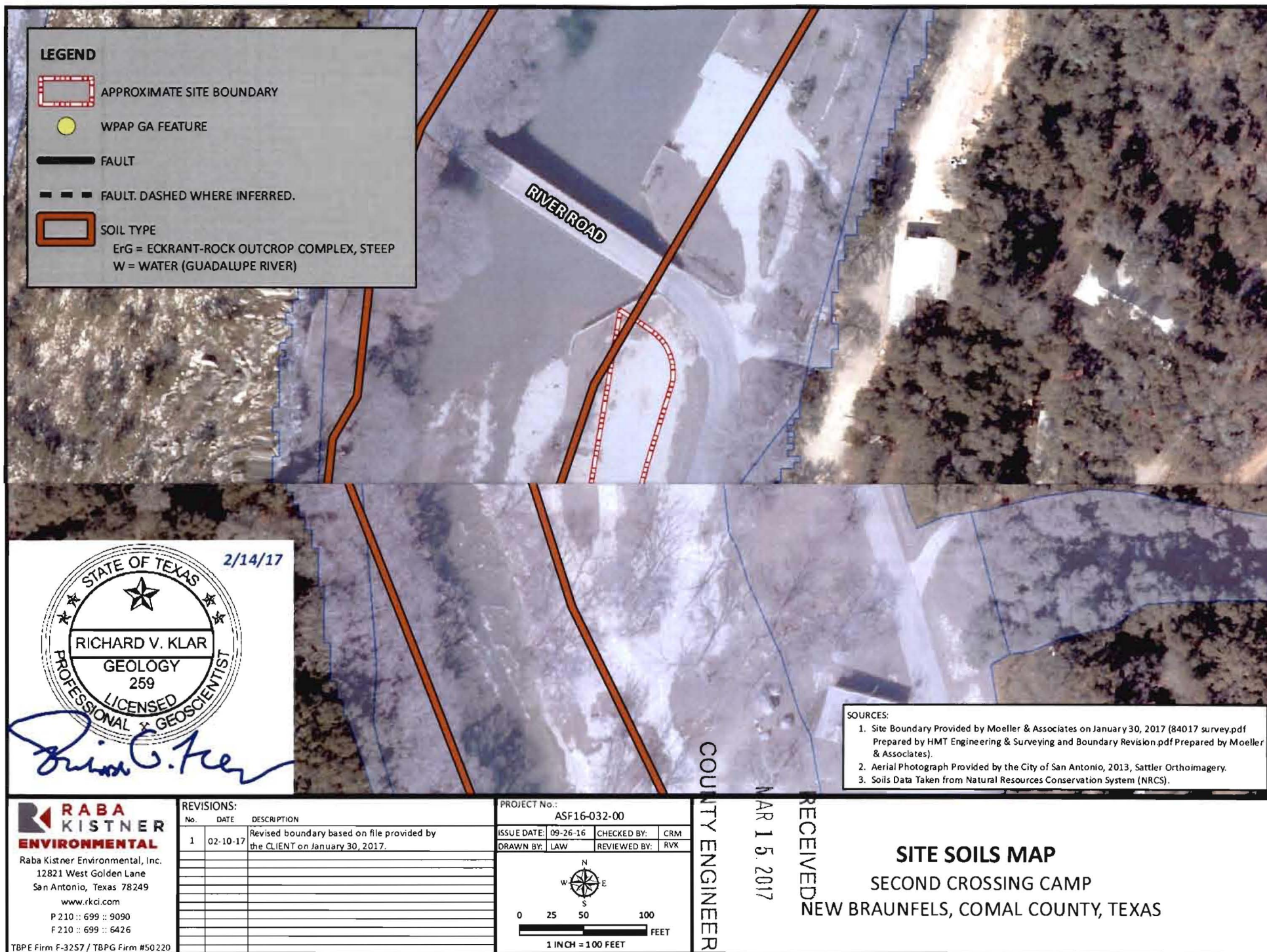
SOIL PROFILE
Second Crossing Camp
New Braunfels, Comal County, Texas

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SOIL SERIES	THICKNESS ON SITE	DESCRIPTION
Eckrant	2 – 3 feet	<p><i>Eckrant-Rock outcrop complex, steep (ErG):</i> This series consists of very shallow to shallow, well drained, undulating to steep clayey soils and rock outcrop on uplands. The soils formed over indurated fractured limestone.</p> <p>The surface layer is comprised of very dark gray, extremely stony clay about 10 inches thick. The upper part is about 35 percent by volume of cobbles and stone with 75 percent by volume of stones in the lower part. The underlying layer, approximately 10 to 20 inches thick is indurated fractured limestone. The soil is moderately alkaline and non-calcareous throughout.</p> <p>The rock outcrop consists of barren exposures of indurated limestone. Four inches of clayey soil material overlies the bedrock with dark colored clay in cracks and fractures in a few areas.</p>

The preceding table was prepared on the basis of information provided in the *Soil Survey – Comal and Hays Counties, Texas (June 1984)* in addition to field observations. As presented on the attached ***Site Geologic Map (Attachment D)***, native soils at the SITE are mapped as Eckrant-Rock outcrop complex, steep (ErG). ErG soils are weakly-developed and relatively thin, occurring over weathered limestone. This soil unit is generally characterized as having the ability to impede rather than transmit fluids to the subsurface identified by the permeability ranging on the order of 0.2 to 0.6 inches/hour.

Although soils adjacent to the Guadalupe River channel are mapped as ErG series in the referenced soil survey, it was observed that ErG soils are actually present on upland areas located beyond the limits of the 100-year floodplain east of River Road. Soils exposed throughout the larger SITE parcel are predominantly alluvial deposits (Quaternary Alluvium [Qal]), which consists of recent floodplain deposits consisting of varying properties of silt, sand, gravel, and clay. Soils are apparently coarse-grained and well-drained, with relatively moderate to fast infiltration capacity.



NOTE: This Drawing is Provided for Illustration Only, May Not be to Scale and is Not Suitable for Design or Construction Purposes

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ATTACHMENT B

STRATIGRAPHIC COLUMN

STRATIGRAPHIC COLUMN
Second Crossing Camp
New Braunfels, Comal County, Texas

STRATIGRAPHIC FORMATION	THICKNESS	DESCRIPTION
Quaternary Alluvium (Qal)	Variable, 1-5 ft.	Unit consists of varying proportions of clay, sand, silt, and gravel that correspond to relatively recent floodplain deposits. These deposits associated with the Guadalupe River.
Quaternary Terrace Deposits (Qt)	Variable, 4-8 ft.	Unit consists of older fluvial terrace deposits consisting of gravel, sand, silt, and clay of various proportions. Limited exposures are present in the lower portion of the face cliff, west of the SITE.
Edwards Limestone (Ked) <u>Kainer Formation (Kek)</u>	250 ft.	
<i>Regional dense member</i>	20-24 ft.	Unit consists of dense, argillaceous mudstone. Identified in the field by wispy iron-oxide stains. Not present at the SITE.
<i>Kirschberg evaporite member</i>	50-60 ft.	Unit consists of highly altered crystalline limestone, chalky mudstone, and chert. Identified in the field by boxwork voids with neospar and travertine frame. Not present at the SITE.
<i>Dolomitic Member</i>	110-130 ft.	Unit consists of mudstone to grainstone; crystalline limestone; and chert. Identified in the field by massively bedded, light gray outcrops, with abundant <i>Toucasia</i> . Exposures are mapped in the cliff faces and upland areas located beyond the 100-year floodplain areas.
<i>Basal Nodular Member</i>	50-60 ft.	Unit consists of shaly, nodular mudstone and miliolid grainstone. Identified in the field by nodular and mottled appearance and by the presence of <i>Exogyra texana</i> . Inferred to underlie the SITE, but with limited exposure in the lower cliff face, west of the SITE.

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Note: Stratigraphic Column adapted from Barnes (1983), Small and Hanson (1994), and Collins (2000).

ATTACHMENT C

NARRATIVE OF SITE SPECIFIC GEOLOGY

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SITE GEOLOGY NARRATIVE
Second Crossing Camp
New Braunfels, Comal County, Texas

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Introduction

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The following discussion is a site-specific assessment of existing geological conditions and potential recharge features within the referenced project site. This assessment was performed by **Raba Kistner Environmental, Inc. (RKEI)** for the project civil engineer, Moeller & Associates (CLIENT), pursuant to applicable Edwards Aquifer Protection Program Rules as specified in *Title 30 of the Texas Administrative Code, Section 213 (30 TAC §213, effective April 24, 2008)*. This assessment report is in the format required by the Texas Commission on Environmental Quality (TCEQ) for the Geologic Assessment portion of a Water Pollution Abatement Plan (WPAP) and was prepared in accordance with the revised *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585)*, which are applicable to submittals received by the TCEQ after October 1, 2004.

This geologic assessment report documents conditions observed by **RKEI** within the project boundaries on March 8, June 14, and August 10, 2016, and most recently on February 2, 2017.

Site Description

Site Location. The project includes a land parcel located at 6515 River Road in New Braunfels, Texas. The property is currently developed as a commercial campground with several brick structures, restroom facilities, and an area for recreational vehicle (RV) service connections. This land parcel located between River Road and the Guadalupe River consists of approximately 2.159 acres. The subject property (hereinafter referred to as SITE) is indicated on the attached **Site Geologic Map**.

Based on review of official maps published by the Texas Commission on Environmental Quality (TCEQ), the full extent of the SITE is fully located within the Edwards Aquifer Recharge Zone (EARZ). As such, the performance of a geologic assessment is required to facilitate planned construction activities in accordance with applicable provisions set forth in the EAPP rules as specified in *Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective April 24, 2008)*.

Topography and Drainage. Topographic contours on the U.S. Geological Survey (USGS, 1992) 7.5-minute topographic map (i.e. Sattler) were reviewed to evaluate the general surface conditions and drainage patterns are depicted on the **Site Geologic Map**. The majority of the SITE consists of relatively flat floodplain topography with gentle slope toward the west and southwest. The average elevation at the SITE is approximately 670 feet above mean sea level (msl).

As indicated by topographic contours presented on **Site Geologic Map**, the surface drainage patterns for the SITE are generally to the west/southwest toward Guadalupe River. A review of the Flood Insurance Rate Map (FEMA, 2009) indicates that the SITE is fully contained within the 100-year floodplain.

Historical Property Use. Although research pertaining to past SITE operations and historical land use activities was beyond the scope of this assessment, historical aerial imagery was reviewed to evaluate

historical land use and the presence of lineations that could indicate the existence of a normal fault. Since the 1995 aerial to present day, the 2.159-acre subject property has been operated as a commercial campground. As presented on the attached **Site Geologic Map**, current immediate adjacent properties to the SITE include Guadalupe River to the north and west, residential developments to the east and west, and a picnic area associated with a separate commercial campground to the south.

Classification of Recharge Features: As further described herein, no naturally-occurring recharge features attributed to karstification of limestone terrain and/or surface erosional processes were identified within SITE boundaries, although an inferred normal fault zone was mapped as indicated on the attached **Site Geologic Map**. Manmade features identified and discussed herein include an active water-supply well and three septic tank installations. The significance of these features was assessed using definitions and guidance provided in *Instructions to Geologists (TCEQ-0585-Instructions, revised October 1, 2004)*. All features within the SITE that met the criteria presented in this reference were mapped. The characteristics of all mapped features and the assessments of these features, as defined by the TCEQ, are presented in the attached **Geologic Assessment Table (TCEQ-0585)**.

Stratigraphy

As presented in the attached **Stratigraphic Column**, information pertaining to the lithologies and thickness of geologic units underlying the SITE was based on field observations and collective published data taken from Collins (2000) and Small and Hanson (1994). Field observations indicate that the SITE is underlain to depths on the order of at least 5 feet by recent floodplain deposits associated with the Guadalupe River (i.e., Quaternary Alluvium [Qal]). Based on observations of the approximate 80-foot cliff located across the river channel west of the SITE, the lower approximately 20-30 feet of the cliff face is interpreted to correspond to the lowermost unit of the Kainer Formation [Kek], (i.e., Basal Nodular Member).

Quaternary alluvial deposits observed at the SITE consist of recent floodplain deposits that include silty clay with scattered gravels and containing discrete sand and gravel lenses. The majority of the gravels and cobbles observed at ground surface and along the river channel were derived from erosion of the Edwards Limestone formation. Older fluvial terrace deposits designated as Quaternary Terrace deposits (Qt) are mapped and were identified within broad gently sloping areas located adjacent to or within floodplain areas. Qt consists of floodplain deposits that also include varying proportions of gravel, sand, silt, and clay.

The Kainer Formation consists of approximately 250 to 340-feet of grainstone, mudstone, and crystalline limestone. The Kek is commonly divided into four distinct members: (i) Grainstone Member, (ii) Kirchberg Evaporite Member, (iii) Dolomitic Member, and (iv) Basal Nodular Member. The Dolomitic Member is exposed in the cliff face located west of the SITE and throughout the upland area located east of the floodplain, and consists of massively bedded, light gray mudstone to grainstone, as well as, crystalline limestone and representing the Edwards Limestone underlying the SITE. The Basal Nodular Member, a marine deposit consisting shaly, nodular limestone, mudstone, and miliolid grainstone, was observed to have limited exposure in the lower cliff face, west of the campground parcel and is inferred to underlie the SITE.

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Structure

This SITE is located within the Balcones Fault Zone and as such possesses a distinct structural trend. This zone generally consists of a northeast-southwest trending, *en echelon* normal fault system, which juxtaposes Upper Cretaceous lithologies in the southeast with Lower Cretaceous lithologies in the northwest. As a result of this larger-scale, regional faulting, minor internal fault sequences and fractures exist within this zone which follow the same structural trend and accommodate localized displacement.

A single normal fault zone designated as **Feature S-4** was mapped based upon review of published geologic references to include Collins (2000) and limited field evidence. Although no indications of the fault were observed at the SITE owing to alluvial cover, the presence of the fault was inferred based on observed geomorphology and changes in rock conditions on the adjacent cliff face west of the SITE (represented on the **Site Geologic Map** by a solid line). It is inferred that this feature serves to facilitate minor internal displacement within the Edwards Limestone.

Karst Feature

No karst features were identified on the SITE.

Non-Karst Closed Depressions

No non-karst closed depressions were mapped at the SITE.

Manmade Features

As presented on the **Site Geologic Map**, a total of four manmade features were identified which may potentially serve to enhance the transmission of surface runoff to the subsurface. The features consists an existing domestic water well, two active septic tank systems, and former septic tank excavation or tankpit that meet criteria for assessment as manmade features in bedrock. The specific features identified are listed below:

- **Feature S-1** consists of a domestic water well.
- **Feature S-2** consists of an active septic tank.
- **Feature S-3** consists of a former septic tank.
- **Feature S-5** consists of an active septic tank.

The existing domestic water well is classified as sensitive, as a breach of the existing surface completion would result in a direct conduit for fluids or other surface-derived contaminants to enter the Edwards Aquifer. At the time field mapping activities were conducted, the well was operational and the casing was found to be in good condition.

The active septic tank systems and the former septic system that is currently backfilled are classified as not sensitive, having a low potential of transmitting fluids into the Edwards Aquifer. None of the manmade features were observed in conjunction with any naturally-occurring recharge features.

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These classifications are based upon the point assignment criteria presented in the ***Geologic Assessment Table (TCEQ-0585)*** and professional judgment.

Potential for Fluid Migration to the Edwards Aquifer

The SITE is overlain by predominantly alluvial soils, with apparently moderate to fast published infiltration rates. Based on our review of SITE geology, topography and drainage conditions, in addition to the results of our detailed mapping efforts, the overall potential for fluid movement (i.e. surface-derived flow) to the Edwards Aquifer via infiltration is considered to be low to moderate. The following assessment findings support this conclusion.

- The capacity for direct infiltration of surface runoff or other spilled substances to the Edwards Aquifer is limited owing to presence of thick alluvial cover throughout the majority of the SITE.
- No naturally-occurring features attributed to karstification of limestone terrain are present at the SITE. With the exception of the onsite water well, no sensitive manmade features were identified.
- No evidence of karstification or preferential drainage was identified in association with the inferred normal fault zone.

Project No. ASF16-032-00
September 26, 2016 (Revised February 14, 2017)

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References

Barnes, V. L., 1983, Geologic Atlas of Texas San Antonio Sheet; Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas.

Collins, Edward W., 2000, Geologic Map of the New Braunfels, Texas, 30 x 60 Minute Quadrangle: Geologic Framework of an Urban-Growth Corridor along the Edwards Aquifer, South-Central Texas: Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas.

Moeller & Associates, 2016, Site boundaries: *BAIR001-Base.dwg* provided to **RKEI** via email correspondence on 9/20/16.

Moeller & Associates, 2017, Revised site boundaries: *84017 survey.pdf* and *Boundary revision.pdf* provided to **RKEI** via email correspondence on 1/30/17.

National Flood Insurance Program, 2009, Flood Insurance Rate Map, Comal County, Texas and Incorporated Areas; Federal Emergency Management Agency, Map 48091C0270F.

Small, T. A., and J. A. Hanson, 1994, Geologic framework and hydrogeologic characteristics of the Edwards Aquifer outcrop, Comal County, Texas: USGS Water-Resources Investigations Report 94-4117.

TCEQ Edwards Aquifer Protection Program, 1998, Edwards Aquifer Recharge Zone Map, Sattler Quadrangle; TNRCC, September 1998.

United States Geological Survey (USGS), 1992, Sattler Quadrangle; USGS, Denver, Colorado.

United States Department of Agriculture (USDA), 1984, Soil Survey of Comal and Hays Counties, Texas; USDA / Soil Conservation Service / Texas Agricultural Experiment Station, June 1984.

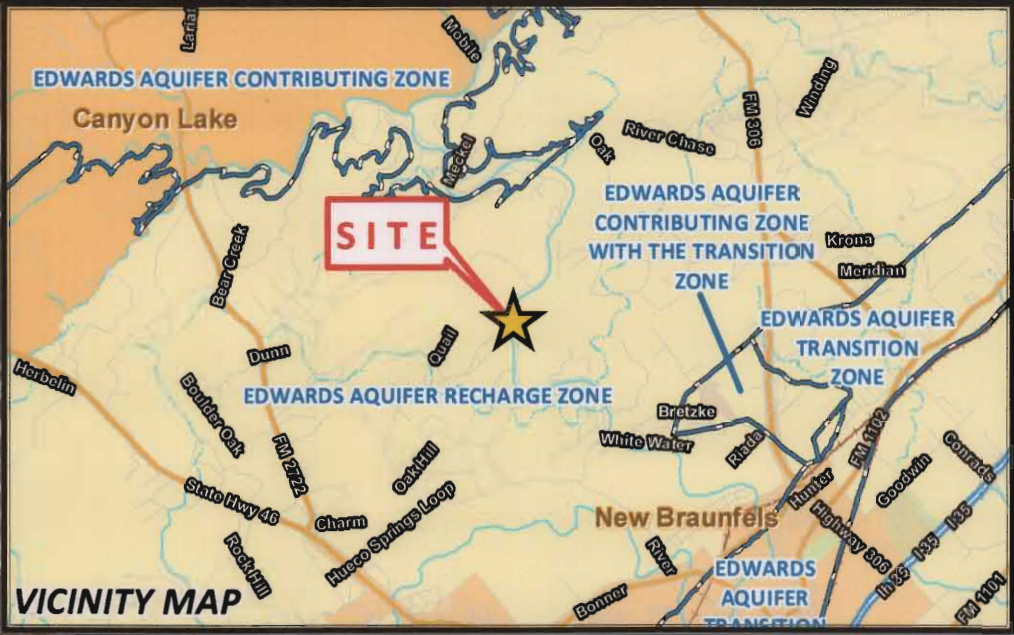
United States Department of Agriculture (USDA), 1986, Urban Hydrology for Small Watersheds; USDA / Natural Resource Conservation Service, Technical Release (TR-) 55, June 1986.

ATTACHMENT D

SITE GEOLOGIC MAP

FEATURE POSITION TABLE
(GPS COORDINATES)

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LEGEND

APPROXIMATE SITE BOUNDARY

WPAP GA FEATURE

FAULT

FAULT, DASHED WHERE INFERRED.

10-FT CONTOUR

100-YEAR FLOODPLAIN

GEOLOGY
Qal = QUATERNARY ALLUVIUM
Qt = QUATERNARY TERRACE DEPOSITS
Kek = KAUFMAN FORMATION



FEATURE POSITION TABLE
 Second Crossing Camp
 New Braunfels, Comal County, Texas
 RKEI Project No. ASF16-032-00

Feature Designation	Feature Type	Date Collected	North Latitude	West Longitude	UTM Northing (meters)	UTM Easting (meters)
S-1	Manmade feature in bedrock (Water Well)	6/14/2016	N29 46 36.3	W98 09 35.3	3294344	581217
S-2	Manmade feature in bedrock (Septic Tank)	6/14/2016	N29 46 37.1	W98 09 35.5	3274369	581212
S-3	Manmade feature in bedrock (Backfilled Septic Tank)	6/14/2016	N29 46 36.8	W98 09 36.0	3274359	581197
S-4	Fault	6/14/2016	N29 46 37.2	W98 09 36.8	3294370	581176
S-5	Manmade feature in bedrock (Septic Tank)	2/2/2017	N29 46 35.5	W98 09 35.0	3294319	581226

NOTES:

- 1) Geographic coordinates are presented Degrees, Minutes, Decimal Seconds
- 2) Reference Datum is NAD 83
- 3) Data were collected utilizing a **Garmin GPS 60cx Global Positioning System**
- 4) Horizontal Accuracy: RMS Value < 3 meter ground resolution
- 5) GPS data were collected by Chris Murray, **RKEI** Project Professional.
- 6) GPS coordinates correlate to the points on the map for each feature.

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Water Pollution Abatement Plan Application

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Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Shane Klar, P.E.

Date: 03/09/2017

Signature of Customer/Agent:



Regulated Entity Name: Second Crossing Camp

Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: _____
- ☐ Residential: Number of Living Unit Equivalents: _____
- ☒ Commercial
- ☐ Industrial
- ☐ Other: _____

2. Total site acreage (size of property): 2.16

3. Estimated projected population: 120

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	1,687	$\div 43,560 =$	0.04
Parking	7,986	$\div 43,560 =$	0.18
Other paved surfaces	0	$\div 43,560 =$	0
Total Impervious Cover	9,673	$\div 43,560 =$	0.22

Total Impervious Cover $0.22 \div$ Total Acreage $2.16 \times 100 = 10.19\%$ Impervious Cover

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☐ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

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7. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

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8. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 =$ _____ % impervious cover.

11. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

12. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. ☒ **Attachment B - Volume and Character of Stormwater.** A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

100% Domestic
 % Industrial
 % Commingled
TOTAL gallons/day 500

500 Gallons/day
 Gallons/day
 Gallons/day

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15. Wastewater will be disposed of by:

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☒ On-Site Sewage Facility (OSSF/Septic Tank):

☒ **Attachment C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

☐ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

☐ The SCS was previously submitted on _____.

☐ The SCS was submitted with this application.

☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☐ The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

- ☐ Existing.
☐ Proposed.

16. ☒ All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

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17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 40'.

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18. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☐ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA Panel Number 48091C0270F 9/02/2009

19. ☐ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☒ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☒ There are 1 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☒ The wells are not in use and will be properly abandoned.

☐ The wells are in use and comply with 16 TAC §76.

☐ There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

☒ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☐ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

22. ☐ The drainage patterns and approximate slopes anticipated after major grading activities.
23. ☐ Areas of soil disturbance and areas which will not be disturbed.
24. ☐ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
25. ☐ Locations where soil stabilization practices are expected to occur.
26. ☒ Surface waters (including wetlands).
☐ N/A
27. ☒ Locations where stormwater discharges to surface water or sensitive features are to occur.
☐ There will be no discharges to surface water or sensitive features.
28. ☒ Legal boundaries of the site are shown.

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Administrative Information

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29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

ATTACHMENT "A"

Factors Affecting Water Quality

The current development consists of approximately 1,700 square feet of differing structures and less than 8,000 square feet of concrete and asphalt pavement. On site there are portable toilets, laundromat, dump station, and 32 RV campsites. Permanent BMP's that exist along the river, instead of being a benefit, are causing more damage during high flow events and although there exists minimal to no erosion control on site, it is requested to be exempt from BMPs as the property contains less than 20% Impervious Cover. This should result in little to no pollution from the site and not cause any adverse effect to downstream water quality measures. The pollution may originate from automobile waste and cleaning chemicals which may have an effect on surface water by sediments leaving the site after a rainfall event.

ATTACHMENT "B"

Volume and Character of Stormwater

No immediate construction is occurring on this site. A request for a septic permit resulted in the discovery that the property did not previously have a Water Pollution Abatement Plan on file. The existing drainage for the RV Park and Campground will remain unchanged as a result of this application.

ATTACHMENT "C"

Suitability Letter from Authorized Agent

A suitability letter has been attached to the end of this section.

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ATTACHMENT "D"

Exception to Required Geologic Assessment

No exception requested.

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LAND STEWARDSHIP SERVICES, LLC

1822 FM 473

Boerne, Texas 78006

May 20, 2016

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Jeff Blair
16825 IH 35 North
Selma, Texas 78154

COUNTY ENGINEER

RE: Site Suitability for On-Site Septic System for a 2.159-acre tract in the Lewis P
Whiting Survey no 2, Abstract no. 656, 6515 River Road, New Braunfels, Texas
78132

Dear Mr. Blair,

On July 31, 2015 I visited the site of the 2nd Crossing RV campground. The property is located on the east side of River Road and west of the Guadalupe river. The property is located in Comal County.

The topography consists of generally flat, sloping towards the Guadalupe River from River road. The soils are of gravelly clay loam. The entire property is cleared with very few trees, mostly cypress along the river. The majority of the property is covered in gravel with very small areas consisting of grass cover.

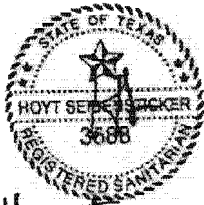
Due to the tract being mostly covered by gravel with RV sites and buildings and with very little vegetation, the on-site septic system options are limited. The on-site septic systems suitable for this site would be an aerobic treatment unit with disposal option of drip irrigation.

Page 2
Jeff Blair
2nd Crossing RV campground

Please be advised that the site will require a soil and site evaluation to determine the location of on-site septic system. The property will need to be evaluated to determine the on-site septic system location.

If you have any questions, please give me a call at (210) 414-6603

Sincerely,



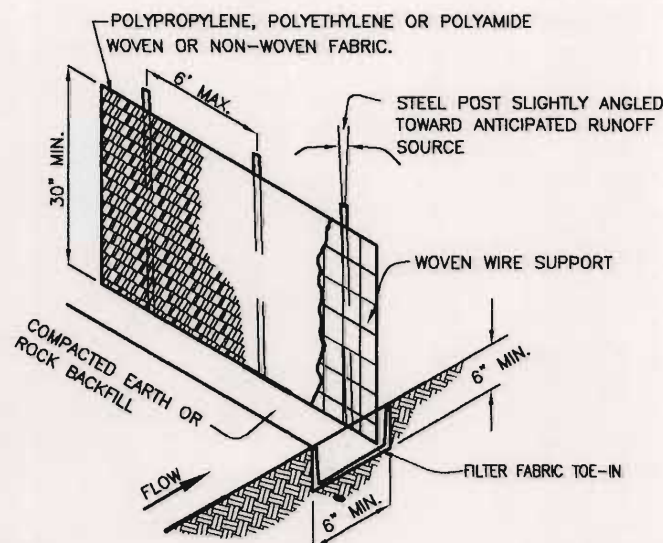
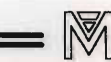
*Hoyt
Seidensticker*

Hoyt Seidensticker, RS 3588

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ROCK BERM

MATERIALS:

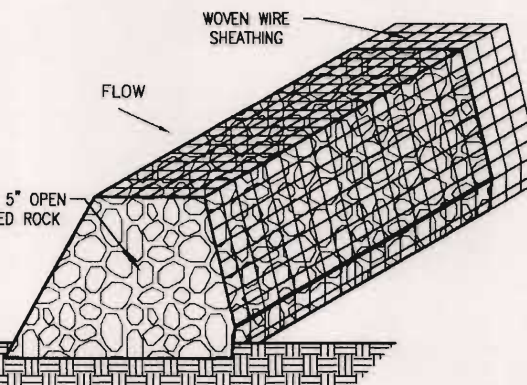
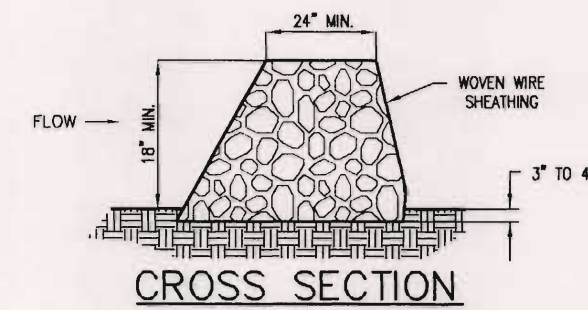
1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 11 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
2. CLEAN, OPEN GRADED 3 - 5 INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5 - 8 INCH DIAMETERS ROCKS MAY BE USED.

INSTALLATION:

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.
2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM, TO A HEIGHT OF NOT LESS THAN 18 INCHES.
4. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAPS AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
6. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

INSPECTION AND MAINTENANCE GUIDELINES:

1. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY CONTRACTOR.
2. REMOVE SEDIMENT AND OTHER DERRIS WHEN BUILDUP REACHES 6" AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.
3. REPAIR ANY LOOSE WIRE SHEATHING.
4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
5. THE BERM SHOULD BE REPLACED WHEN STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.



ISOMETRIC PLAN VIEW

LEGEND

- SF — SF — SILT FENCE
- 900 — EXISTING CONTOURS
- FLOW ARROWS
- ROCK BERM

SILT FENCE

MATERIALS:

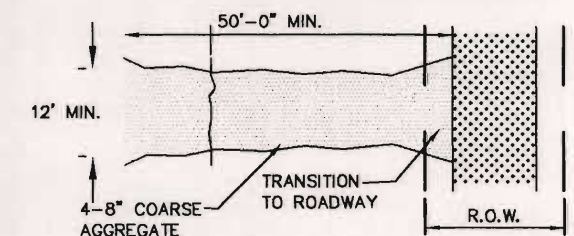
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR YBAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/FT², AND BRINELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION:

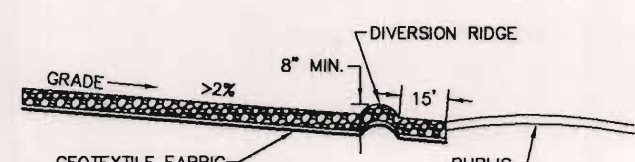
1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1- FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
2. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.
3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES:

1. INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL.
2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
3. REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.
4. REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.
5. WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.



PLAN VIEW



PROFILE

STABILIZED CONSTRUCTION ENTRANCE / EXIT

MATERIALS:

1. THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.
3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD², A MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4 INCH DIAMETER WASHED STONE OR COMMERCIAL RACK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.

INSTALLATION:

1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION FOR POSITIVE DRAINAGE.
2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6 TO 8 INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES:

1. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR LOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

HYDRAULIC MULCH

MATERIALS:

HYDRAULIC MULCHES: WOOD FIBER MULCH CAN BE APPLIED ALONE OR AS A COMPONENT OF HYDRAULIC MATRICES. WOOD FIBER APPLIED ALONE IS TYPICALLY APPLIED AT THE RATE OF 2,000 TO 4,000 LB/ACRE. WOOD FIBER MULCH IS MANUFACTURED FROM WOOD OR WOOD WASTE FROM LUMBER MILLS OR FROM URBAN SOURCES.

HYDRAULIC MATRICES: HYDRAULIC MATRICES INCLUDE A MIXTURE OF WOOD FIBER AND ACRYLIC POLYMER OR OTHER TACKIFIER AS BINDER. APPLY AS A LIQUID SLURRY USING A HYDRAULIC APPLICATION MACHINE (I.E. HYDRO SEEDER) AT THE FOLLOWING MINIMUM RATES, OR AS SPECIFIED BY THE MANUFACTURER TO ACHIEVE COMPLETE COVERAGE OF THE TARGET AREA: 2,000 TO 4,000 LB/ACRE WOOD FIBER MULCH, AND 5 TO 10% (BY WEIGHT) OF TACKIFIER (ACRYLIC COPOLYMER, GUAR, PSYLLIUM, ETC.)

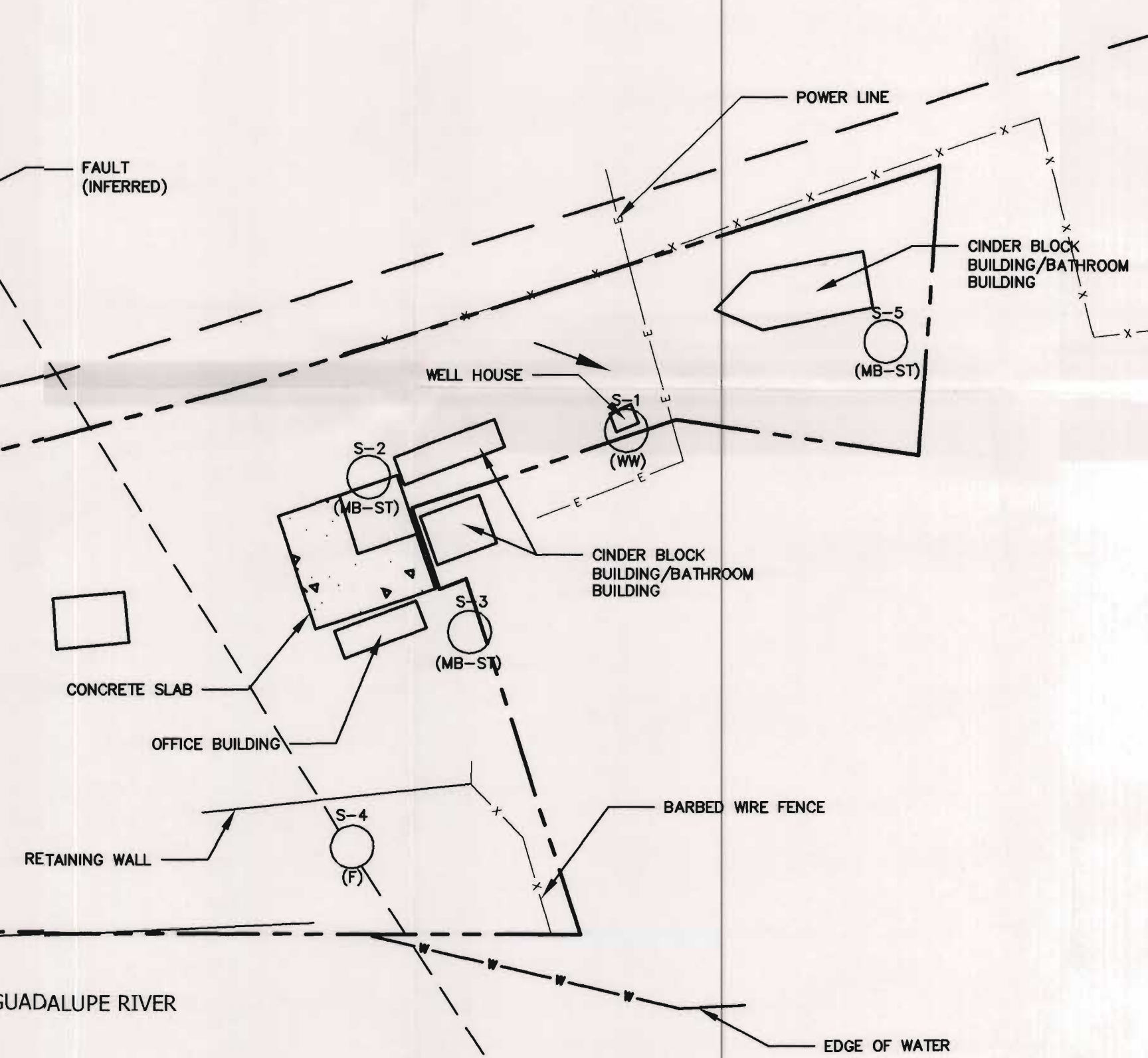
BONDED FIBER MATRIX: BONDED FIBER MATRIX (BFM) IS A HYDRAULICALLY APPLIED SYSTEM OF FIBERS AND ADHESIVES THAT UPON DRYING FORMS AN EROSION RESISTANT BLANKET THAT PROMOTES VEGETATION, AND PREVENTS SOIL EROSION. BFMS ARE TYPICALLY APPLIED AT RATES FROM 3,000 LB/ACRE TO 4,000 LB/ACRE BASED ON THE MANUFACTURER'S RECOMMENDATION. A BIODEGRADABLE BFM IS COMPOSED OF MATERIALS THAT ARE 100% BIODEGRADABLE. THE BINDER IN THE BFM SHOULD ALSO BE BIODEGRADABLE AND SHOULD NOT DISSOLVE OR DISPERSE UPON RE-WETTING. TYPICALLY, BIODEGRADABLE BFMS SHOULD NOT BE APPLIED IMMEDIATELY BEFORE, DURING OR IMMEDIATELY AFTER RAINFALL IF THE SOIL IS SATURATED. DEPENDING ON THE PRODUCT, BFMS TYPICALLY REQUIRE 12 TO 24 HOURS TO DRY AND BECOME EFFECTIVE.

INSTALLATION:

1. PRIOR TO APPLICATION, ROUGHEN EMBANKMENT AND FILL AREAS BY ROLLING WITH A CRIMPING OR PUNCHING TYPE ROLLER OR BY TRACK WALKING. TRACK WALKING SHALL ONLY BE USED WHERE OTHER METHODS ARE IMPRACTICAL.
2. TO BE EFFECTIVE, HYDRAULIC MATRICES REQUIRE 24 HOURS TO DRY BEFORE RAINFALL OCCURS.
3. AVOID MULCH OVER SPRAY ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, EXISTING VEGETATION, ETC.

INSPECTION AND MAINTENANCE GUIDELINES:

1. MULCHED AREAS SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.
2. AREAS DAMAGED BY STORMS OR NORMAL CONSTRUCTION ACTIVITIES SHOULD BE REGRADED AND HYDRAULIC MULCH REAPPLIED AS SOON AS PRACTICAL.



TOTAL LAND AREA	=	2.16 AC
MAXIMUM DISTURBED AREA	=	0.00 AC
TOTAL IMPERVIOUS AREA	=	0.22 AC
% IMPERVIOUS	=	10.19%

SOIL STABILIZATION NOTE

ALL DISTURBED SOILS SHOULD BE SEED OR OTHERWISE STABILIZED WITH 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.



Know what's below.
Call before you dig.



ISSUES AND REVISIONS

DATE

NO

MOELLER & ASSOCIATES
Engineering Solutions
1040 N. WALNUT AVE. STE. B, NEW BRAUNFELS, TX 78130
PH: 830-268-8888 FAX: 830-268-8889
TXPE FIRM E-13351

WPAP SITE PLAN

RECEIVED
MAR 15 2017
COUNTY ENGINEER

SECOND CROSSING CAMP

SHEET

1
OF 1

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC
§213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Shane Klar, P.E.

Date: 03/09/2017

Signature of Customer/Agent:



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Regulated Entity Name: Second Crossing Camp

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☐ The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

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Sequence of Construction

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- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☐ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☐ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Guadalupe River

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☐ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☐ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☐ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☐ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 - ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☒ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

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Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

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ATTACHMENT "A"
Spill Response Actions

Due to no proposed construction there will be no spill response actions required.

ATTACHMENT "B"
Potential Sources of Contamination

The only potential sources of contamination are from automobile waste and cleaning chemicals which may have an effect on surface water by sediments leaving the site after a rainfall event.

ATTACHMENT "C"
Sequence of Construction

This development does not have construction planned.

ATTACHMENT "D"
Temporary Best Management Practices and Measures

Due to no proposed construction there will be no temporary best management practices.

ATTACHMENT "E"
Request to Temporarily Seal a Feature

There will be no request to temporarily seal a feature.

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ATTACHMENT "F"
Structural Practices

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The majority of the site is in a natural state with minimal disturbance of existing drainage patterns. There exists a long retaining wall just outside the property boundary. There is a small portion of the wall at the south side of the site. These divert flows away from exposed soils or otherwise limit runoff discharge of pollutants. No other structural practices are included for this reason. See Site Plan for location of these structures.

ATTACHMENT "G"
Drainage Area Map

See Drainage Area Map at the end of this section. Current erosion measures are to remain. No soils are to be disturbed.

ATTACHMENT "H"
Temporary Sediment Pond(s) and Plans Calculations

No proposed sediment ponds or basin construction plans.

ATTACHMENT "I"

Inspection and Maintenance for BMPs.

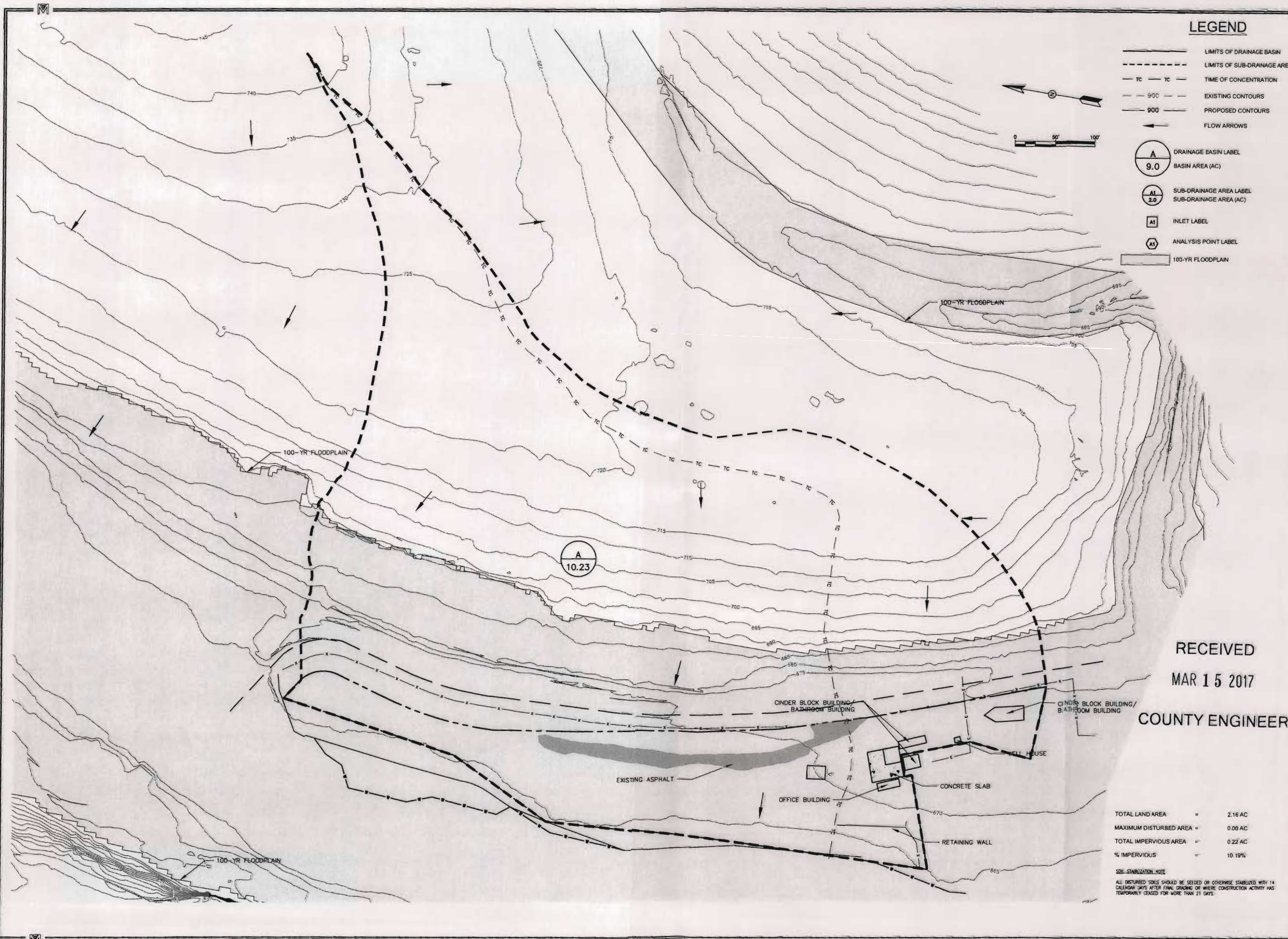
No proposed sediment ponds or basin construction plans.

ATTACHMENT "J"

Schedule of Interim and Permanent Soil Stabilization Practices

No proposed disturbed soils. Existing vegetation to remain.

Drawing Name: N:\Projects\Bldg001 Second Crossing Camp\Civil\Construction Drawings\Drainage Area Map.dwg User: NoshMoh Mar 09, 2017 - 3:53pm



LEGEND

- LIMITS OF DRAINAGE BASIN
- - - LIMITS OF SUB-DRAINAGE AREA
- TC TC TIME OF CONCENTRATION
- 900 - EXISTING CONTOURS
- 900 - PROPOSED CONTOURS
- FLOW ARROWS
- A 9.0 DRAINAGE BASIN LABEL
BASIN AREA (AC)
- A1 2.0 SUB-DRAINAGE AREA LABEL
SUB-DRAINAGE AREA (AC)
- A1 INLET LABEL
- A1 ANALYSIS POINT LABEL
- 100-YR FLOODPLAIN



THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF SHANE A. KLAR, PE, 115810 ON March 9, 2017. IT IS TO BE USED FOR BIDDING AND PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION.

ISSUES AND REVISIONS

MOELLER & ASSOCIATES
Engineering Solutions
1040 N. WALNUT AVE. STE. B, NEW BRAUNFELS, TX 78130
PH: 830-358-7127 www.mo-tx.com
TSP# FIRM F-13351

DRAINAGE AREA MAP

SECOND CROSSING CAMP

NEW BRAUNFELS, TX 78130

SHEET

1
OF 1

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TOTAL LAND AREA = 2.16 AC
MAXIMUM DISTURBED AREA = 0.00 AC
TOTAL IMPERVIOUS AREA = 0.22 AC
% IMPERVIOUS = 10.19%

SOIL STABILIZATION NOTE
ALL DISTURBED SOILS SHOULD BE SEED OR OTHERWISE STABILIZED WITH 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(ii), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Shane Klar, P.E.

Date: 03/09/2017

Signature of Customer/Agent



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Regulated Entity Name: Second Crossing Camp

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Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. ☐ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☒ N/A
2. ☐ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☐ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

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COUNTY ENGINEER

- ☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

☒ N/A

3. ☐ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

☒ N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☒ **Attachment A - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

☐ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☒ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☐ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☒ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
- ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☐ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☐ Design calculations (TSS removal calculations)
- ☐ TCEQ construction notes
- ☐ All geologic features
- ☐ All proposed structural BMP(s) plans and specifications
- ☒ N/A

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11. ☐ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:

- ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☐ Signed by the owner or responsible party
- ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
- ☐ A discussion of record keeping procedures

☒ N/A

12. ☐ **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

☒ N/A

13. ☐ **Attachment I -Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

☒ N/A

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Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

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14. ☐ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

☒ N/A

15. ☐ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

☒ N/A

ATTACHMENT "A"

20% or Less Impervious Cover Waiver

Exemption from permanent BMP's as per TCEQ requirements for the removal of TSS is requested as the property contains less than 20% impervious cover.

ATTACHMENT "B"

BMP's for Upgradient Stormwater

The upgradient storm water originates to the north of the property and flows south through the property. The site does not require Permanent BMP's to prevent pollution of surface water or groundwater that originates upgradient from the site or flows across the site. This should result in little to no pollution from the site and not cause any adverse effect to downstream water quality measures. Permanent BMP's that do exist along the river, instead of being a benefit, are causing more damage during high flow events and although there exists minimal to no erosion control upgradient of the site, it is requested to be exempt from BMPs as the property contains less than 20% Impervious Cover and was built before the implementation of Texas Commission on Environment Quality rules and regulations.

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ATTACHMENT "C"

BMP's for On-Site Stormwater

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The site, existing before the implementation of Texas Commission on Environment Quality rules and regulations, does not require Permanent BMP's to prevent pollution of surface water or groundwater that originates on site or flows off the site. There exists minimal to no erosion control on site, and it is requested to be exempt from BMPs as the property contains less than 20% Impervious Cover. This should result in little to no pollution from the site and not cause any adverse impact to downstream water quality measures.

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Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

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I Jeff Bair
Print Name

Owner
Title - Owner/President/Other

of Second Crossing Campground, LLC
Corporation/Partnership/Entity Name

have authorized Shane Klar
Print Name of Agent/Engineer

of Moeller & Associates
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

[Signature] 8-22-16
Date

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THE STATE OF TEXAS §

County of Bexar §

COUNTY ENGINEER

BEFORE ME, the undersigned authority, on this day personally appeared Jeff Boir known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 22 day of August, 2016.



[Signature]
NOTARY PUBLIC

Rolando Tejeda
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 11/26/17

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Second Crossing Camp

Regulated Entity Location: 6515 River Road, New Braunfels, TX 78132-3118

Name of Customer: Jeff Bair

Contact Person: Shane Klar (Agent)

Phone: 830-358-7127

Customer Reference Number (if issued): CN 605189562

Regulated Entity Reference Number (if issued): RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☒ Comal

☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

☐ Austin Regional Office

☒ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	2.16 Acres	\$ 4,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: 

Date: 3-09-17

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Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

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Water Pollution Abatement Plans and Modifications

COUNTY ENGINEER

Contributing Zone Plans and Modifications

<i>Project</i>	<i>Project Area in Acres</i>	<i>Fee</i>
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150



TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	3. Regulated Entity Reference Number (if issued)	
CN 605189562	RN RECEIVED MAR 15 2017	

Follow this link to search
for CN or RN numbers in
Central Registry**

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)		COUNTY ENGINEER	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership				
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).				
6. Customer Legal Name (If an individual, print last name first: e.g.: Doe, John)		If new Customer, enter previous Customer below:		
Second Crossing Campground, LLC				
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)	
802384019	32059487192			
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:		
12. Number of Employees		13. Independently Owned and Operated?		
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14. Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check one of the following:				
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator				
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:				
15. Mailing Address:	6515 River Road			
City	New Braunfels	State	TX	
ZIP	78132	ZIP + 4	3118	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)		
		jebair@sunbeltrentals.com		
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)		
(830) 620 - 4036		() -		

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Second Crossing Camp	

23. Street Address of the Regulated Entity: (No PO Boxes)	6515 River Road							
	City	New Braunfels	State	TX	ZIP	78132	ZIP + 4	3118
24. County	Comal							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	The site is located approximately 5.3 miles up River Road from the Shell gas station located on Loop 337. Going south from Sattler, it is approximately 8.5 miles down River Road.							
26. Nearest City	New Braunfels				State	TX	Nearest ZIP Code	
							78132	
27. Latitude (N) In Decimal:	029.776723			28. Longitude (W) In Decimal:	098.159625			
Degrees	Minutes	Seconds		Degrees	Minutes	Seconds		
029	46	36.20		098	09	34.65		
29. Primary SIC Code (4 digits)	7033		30. Secondary SIC Code (4 digits)	7033		31. Primary NAICS Code (5 or 6 digits)	721211	
						32. Secondary NAICS Code (5 or 6 digits)	721211	
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								MAR 15 2017
RV Park and Campgrounds								COUNTY ENGINEER
34. Mailing Address:	6515 River Road							
	City	New Braunfels	State	TX	ZIP	78132	ZIP + 4	3118
35. E-Mail Address:								
36. Telephone Number	(830) 620 - 4036		37. Extension or Code			38. Fax Number (if applicable)	() -	

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

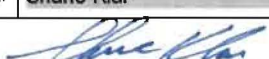
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Shar Klar, PE			41. Title:	Authorized Agent
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(830) 358 - 7127		(803) 515 - 5611	shaneklar@ma-tx.com		

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Moeller & Associates	Job Title:	Engineer
Name (In Print):	Shane Klar	Phone:	(830) 358 - 7127
Signature:		Date:	3/9/17

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 1, 2017

Mr. Jeff Bair
Second Crossing Campground, LLC
16825 I-35 North
Selma, Texas 78154

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Second Crossing Campground; Located at 6515 River Road; New Braunfels, Texas

TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN109696567; Additional ID No. 13000359

Dear Mr. Bair:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by Moeller & Associates on behalf of Second Crossing Campground, LLC on March 10, 2017. Final review of the WPAP was completed after additional material was received on May 4, 2017, and May 24, 2017. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The commercial project has an area of approximately 2.16 acres. It includes a well house, three buildings, a concrete pad, asphalt driveway, and a retaining wall. The impervious cover is 0.22 acres (10.19 percent). According to a letter dated May 1, 2017, signed by Robert Boyd, P.E., with

Comal County, the site in the development is conditionally acceptable for the use of on-site sewage facilities.

PERMANENT POLLUTION ABATEMENT MEASURES

This small business will not have more than 20 percent impervious cover.

GEOLOGY

According to the geologic assessment included with the application, the site is located on the Dolomitic member and Basal Nodular member of the Kainer Formation. Four manmade features and one geologic feature with one manmade feature classified as sensitive (well) was assessed by the project geologist in the assessment. The San Antonio Regional Office site assessment conducted on April 26, 2017 revealed that the site was generally as described in the application.

SPECIAL CONDITIONS

- I. The applicant requested a waiver to the requirement for other permanent BMPs for this commercial project because the development will have less than 20 percent impervious cover. Based on the TCEQ's Review of the proposed activities and the site conditions, the required waiver is hereby granted. If the percent of impervious cover ever increases above 20 percent or the land use changes, the exemption for the whole site as described in the Water Pollution Abatement Plan may no longer apply and the property owner must notify the San Antonio Regional Office of these changes.
- II. The applicant is hereby advised that the after-the-fact approval of the WPAP application, as provided by this letter, shall not absolve the applicant of any violations of TCEQ rules related to this project.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.

5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
13. One well exists on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and

Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.

14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

Mr. Jeff Bair
June 1, 2017
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This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Monica Reyes of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4012.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lynn Bumgardner', written over the printed name.

Lynn Bumgardner, Water Section Manager
San Antonio Region
Texas Commission on Environmental Quality

LB/MR/eg

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Shane Klar, P.E., Moeller & Associates
Mr. Robert Camareno, City of New Braunfels
Mr. Thomas Hornseth, P.E., Comal County
Mr. Roland Ruiz, Edwards Aquifer Authority
Mr. H.L. Saur, Comal Trinity Groundwater Conservation District