Bryan W. Shaw, Ph.D., *Chairman* Buddy Garcia, *Commissioner* Carlos Rubinstein, *Commissioner* Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 20, 2011

Mr. Wilder Castillo American Tower Corporation 16500 Henderson Pass, Suite 309 San Antonio, TX 78232 RECEIVED

MAY 1 1 2011

COUNTY ENGINEER

Re: Edwards Aquifer Protection Program, Comal County

Name of Project: Countryside Tower Site (Site No. SX 3239); Located at 11844 FM 1863, on the south side of FM 1863 about 1,000 feet east of Schoenthal Rd., New Braunfels ETJ, Texas

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

Edwards Aquifer Protection Program San Antonio File No. 2962.00; Investigation No. 899351; Regulated Entity No. RN106083132

Dear Mr. Castillo:

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 Medina Consulting Company, Inc. on behalf of American Tower Corporation on February 11, 2011. Final review of the WPAP was completed after additional material was received on April 5, 2011. As presented to the TCEO, the Temporary and Permanent Best Management Practices (BMPs) 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 proposed commercial project will have an area of approximately 0.34 acres. It will include the construction of a self-support cellular communications tower and associated equipment building, compound, fence and access road. The impervious cover will be 0.0326 acres (9.59 percent). No wastewater is generated by this project.

REPLY TO: REGION 13 0 14250 JUDSON RD. 0 SAN ANTONIO, TEXAS 78233-4480 0 210-490-3096 0 FAX 210-545-4329

Permanent Pollution Abatement Measures

1

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, engineered filter strips, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules:</u> <u>Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 29.26 pounds of TSS generated from the 0.0326 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The individual treatment measures will consist of engineered filter strips on the south and west sides of the compound. These filter strips will have a minimum width of 15 feet, a slope of less than 20% and a minimum vegetation coverage of at least 80%. The filter strip will be located outside of the fence but adjacent to the compound.

Geology

According to the geologic assessment included with the application, the site lies on the Del Rio Clay and no geologic or manmade features were located within the project boundaries. The San Antonio Regional Office did not conduct a site assessment.

Special Conditions

1. The engineered filter strips shall be operational with at least 80% vegetation cover prior to the tower becoming operational.

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.

8

- 13. No wells are located onsite. 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 storm 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

1

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.

If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,

Mark R. Vickery, P.G., Executive Director Texas Commission on Environmental Quality

MRV/CEF/eg

Enclosure: D

: Deed Recordation Affidavit, Form TCEQ-0625

Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Douglass McGookey, P.G., Medina Consulting Company, Inc. Mr. James Klein, P.E., City Engineer, City of New Braunfels Mr. Thomas Hornseth, P.E., County Engineer, Comal County Mr. Karl Dreher, General Manager, Edwards Aquifer Authority TCEQ Central Records, Building F, MC 212





To: Charly Fritz

Edwards Aquifer Protection Program – San Antonio Region TCEQ

From: Douglas McGookey, PG, Medina Consulting Company, Inc. Cal Chapman, PE, Chapman Engineering, Inc.

Responses to Faxed Comments dated March 21, 2011

Re: Edwards Aquifer Comal County

Name of project: Countryside Tower Site (Site No. SX3239); Located at 11844 FM 1863 on the south side of FM 1863 approximately 1,000 feet east of Schoenthal Road, New Braunfels ETJ, Texas

Plan Type: request for the Approval of a Water Pollution Abatement Plan (WPAP); <u>3</u>0 Texas Administrative Code (TAC) Chapter 213; San Antonio File No. 2962.00

General information Form

1. Based upon review of the New, Braunfels city and ETJ limits, the site appears to be located within the ETJ of New Braunfels and might be located within the city limits. Confirm the site location in relation to the city limits and update Item #2. Also provide one additional WPAP copy to the San Antonio Regional Office for distribution. The additional copy can be sent immediately or with the NOP response.

The Site is in the ETJ of New Braunfels. Adjustment made to the General Information Form.

2. The Lease Agreement states AT&T Mobility Texas, LLC is the tenant. If AT&T Mobility is the tenant, then what is the role of American Tower? Also, with respect to this Lease Agreement, who is responsible for permanent BMP maintenance? AT&T Mobility or American Tower?

The roles of the parties are: AT&T Mobility is the tenant and will place antenna on the tower and an equipment building within the compound. American Tower will own and maintain the tower and compound, and will have the opportunity to lease to others a place on the tower for their equipment. American Tower is responsible for permanent BMP maintenance.

3. Please provide an updated USGS Map. The provided USGS Map, (Attachment B) appears to be at a smaller scale than the stated 1 inch equal to 2,000 feet. Secondly, both the Bat Cave and New Braunfels West Quadrangles are shown.

Adjusted map attached.

RECEIVED COUNTY ENGINEER

4. Revise or update the provided AT&T construction drawings to include the location, details and notes for temporary BMPs and permanent BMPs. Also include the TCEQ WPAP Construction Notes (TCEQ-0592). If the AT&T construction drawings cannot be modified, include these items at the end of the AT&T drawings and confirm the contractor will receive all construction drawings including ones related to the WPAP.

The AT&T construction drawings were the original drawings for the project without the adjustments provided in the temporary and permanent BMPs. The contractor will receive all construction drawings including the drawings to implement the BMPs.

5. The provided AT&T drawings are not shown at the stated scale of inch to 20 feet. Please revise.

Printout adjusted for affected figures.

Geologic Assessment

6. Confirm the geologic assessment included the areas that will be engineered filter strips. If the geologic assessment did not extend to the filter strips please update the GA with a supplemental assessment of the area over the engineered filter strips.

The geologic assessment included the areas that will be engineered filter strips.

7. Based on aerial photographs, there is a stock pond to the west of the site. Was the stock pond evaluated during the assessment? If not, due to the close proximity of the stock pond, please evaluate-the stock pond to determine if the pond has any karst origins.

The area identified on the aerial photograph is not a stock pond. The area is a cleared area surrounded by brush and trees and covered in short grass. It may have been a small field in the past, and it is similar in appearance and color to other areas nearby that appear to be fields that are not currently cultivated. In addition, the site is on Del Rio Clay, and from the description of the Del Rio Clay provided on: *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas,* by Blome and others, 2005, "the Del Rio has no recognized cavern development and no significant porosity or permeability". Historical aerial photographs from 1937 through 1987 do not show a surface expression in the shape or location of the clearing. On the basis of this information, it is unlikely the cleared area has a karst origin.

WPAP Form

8. Confirm an aboveground storage tank is not proposed at the site. How will power be obtained? Will there be a backup generator?

An aboveground storage tank and emergency generator are not proposed for the site at this time. Power will be obtained from overhead electric power lines to Power Distribution Center Rack with Drop Pole shown on the drawings. If an emergency generator is installed, it will be powered with natural gas.

9. It appears only the gravel driveway and equipment shelter have been included as impervious cover. Based upon review of the details, the compound will use gravel and subgrade that has been compacted to 95% standard proctor density. Due to compaction rating, please include the compound area as impervious cover. Revise the Project Description (Attachment C of TCEQ-0587) and Item 4, Impervious Cover Table.

There will NOT be a gravel pad installed over much of the compound surface. Please see revised plans, attached. Therefore, impervious cover will be limited to the driveway and a small parking pad, and the foundation for the building. Once construction is completed, native vegetation (possibly augmented with other seeding/vegetation) will be re-established across most of the compound surface.

Temporary Stormwater Form and Temporary BMPs

10. Update the Spill Response Actions, Attachment A, to include the 24 hour State Emergency Response Commission telephone number: 800-832-8224.

The phone number has been added.

11. Update either Attachment A or Attachment B to include a description of refueling and maintenance practices to limit the possibility of spills while refueling or maintaining construction equipment.

There will be no refueling or maintenance of vehicles or construction equipment performed on-site.

12. Revise Attachment I to include inspection criteria for silt fence and rock berms on when sediment should be removed from the structure (ex. 6 inches in depth).

Attachment has been revised to include sediment removal when a depth of 6 inches has been accumulated.

13. For BMPs on the Recharge Zone, the temporary BMPs proposed should be inspected every seven days. Please revise Attachment I.

The inspection frequency has been updated.

14. Update Attachment J to include the steps or directions for installing the permanent planting, sodding, or seeding measures.

The steps have been included in the revised Attachment J.

15. In accordance with the Edwards Aquifer Technical Guidance Manual (RG-348, 2005), provide details, drawings and notes for the proposed temporary BMPs. Please provide these details on or as part of the construction plan sheets.

Construction details with notes have been included.

Permanent Stormwater Form and Permanent BMPs

16. It appears that greater than 72 feet of impervious Cover is flowing to the engineered filter strips. Please revise the amount of impervious cover, the drainage paths to the filter strips or provide additional filter strips and drainage paths.

There will be much less than 72 feet of impervious cover width flowing to the engineered filter strips. Please refer to revised project description.

17. On a plan sheet, provide construction details and design notes for the engineered filter strips. Refer to RG-348 for specific details.

Construction details with notes have been included.

18. Provide a cross section between the gravel compound and the engineered filter strip. There should not be a drop in elevation between the two areas.

The drawing has been included.

19. Engineered filter strips must have a minimum vegetation cover of 80%. Based upon the photograph in the geologic assessment, there is thick and overgrown vegetation cover at the site. Will the minimum 80% vegetation cover be achieved if no clearing will be done over the filter strips?

Natural vegetation in the filter strip areas will not be disturbed during construction, in order to maintain the minimum required vegetation cover of 80 percent.

20. Flow spreaders are no longer allowed with engineered filter strips. Please remove the reference to a flow spreader in Attachment G.

The reference has been removed.



General information Form

General Information Form

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239) STREAM BASIN: Dry Comal Creek COUNTY: Comal EDWARDS AQUIFER: **x** RECHARGE ZONE ___ TRANSITION ZONE PLAN TYPE: x WPAP **EXCEPTION** AST UST MODIFICATION SCS CUSTOMER INFORMATION 1. Customer (Applicant): Wilder Castillo Contact Person: Entity: American Tower Corporation Mailing Address: 16500 Henderson Pass. Suite 309 San Antonio. Texas Zip: 78232 City, State: 210 387-6450 Telephone: FAX; Wilder.Castillo@americantower.com Agent/Representative (If any): Contact Person: Douglas McGookey, PG Entity: Medina Consulting Company, Inc. Mailing Address: 6391 De Zavala, Suite 113 City, State: Zip: 78239 San Antonio, Texas

2. ____ This project is inside the city limits of

Telephone:

- <u>x</u> This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of New Braunfels
- ____ This project is not located within any city's limits or ETJ.

210 694-4545

 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 Site is located at 11844 FM 1863. The Site lies on the south side of FM 1863 about 1,000 feet east of the intersection of Schoenthal Road and FM 1863.

- 4. <u>x</u> **ATTACHMENT A ROAD MAP**. A road map showing directions to and the location of the project site is attached at the end of this form.
- 5. <u>X</u> 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 behind this sheet. The map(s) should clearly show:

FAX: 210 694-4577



ATTACHMENT C: PROJECT DESCRIPTION

Countryside Tower Site (Site No. SX 3239)

The proposed project is the installation of a 195-foot-tall, self-support cellular communications tower and associated equipment building, compound, fence, and access road. The facility name is the Countryside Tower Site (Site No. SX 3239). The proposed cellular communications compound is an approximate 100-foot by 100-foot tract of land at 11844 Farm to Market Road (FM) 1863, which is west of New Braunfels, Texas in Comal County, zip code 78132. The Site is approximately 1,000 feet east of the intersection of Schoenthal Road and FM 1863. The Site is situated along the northern boundary of the parent property that consists of undeveloped land, farmland, and a rural residence. The surrounding area consists of mostly undeveloped or agricultural land with a few rural residential properties.

The only structures to be built that will provide impervious cover are the tower foundation, the foundation for the equipment building, and the compacted gravel driveway. The amount of impervious cover will be 1,420.0 square feet, or 0.0326 acre.

Attached are the design plans for the facility provided by Goodman Networks, Inc., and prepared for AT&T Mobility.

Temporary storm-water controls are required during the construction of site improvements. They will include silt fencing, rock berm, and a rock-bedded construction entrance/exit. Specifications and drawings for these temporary "best management practices" (BMPs) are included in this WPAP package. Also to be used during construction are the undisturbed strips of vegetated landscape, referred to as "vegetative filter strips," which serve to detain silt particles which may wash during rain events from disturbed ground. Each vegetative filter strip must be at least 15 feet in width across the "fall line" (the direction of water "sheet flow"), and must be under the direct control of the tower site owner/operator.

The temporary BMPs can be removed from the construction site once all disturbed soils have been revegetated to at least 70 percent of the original vegetative cover.

The permanent BMPs for storm-water control will be vegetative filter strips only, of the design shown on accompanying drawings.









2-#6 BARS, TOP & BOTTOM



Water Pollution Abatement Plan Application

Water Pollution Abatement Plan Application

for Regulated Activities

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

REGULATED ENTITY INFORMATION

- 1. The type of project is:
 - ____ Residential: # of Lots:
 - Residential: # of Living Unit Equivalents:
 - ___ Commercial
 - ____ Industrial X Other: Tower Construction Site
- 2. Total site acreage (size of property): 0.34 acre
- 3. Projected population: <u>0</u>
- 4. The amount and type of impervious cover expected after construction are shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	280.00	÷ 43,560 =	0.0064
Parking	0	÷ 43,560 =	0
Other paved surfaces	1140.00	÷ 43,560 =	0.0262
Total Impervious Cover	1420.00	÷ 43,560 =	0.0326
Total Impervious Cover ÷ Total Acreage x 100 =			9.59

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. X 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.

- 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.
- 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 x W = ______ Ft² ÷ 43,560 Ft²/Acre = ______ acres.
10. Length of pavement area: ______ feet. Width of pavement area: ______ feet. L x W = ______ Ft² ÷ 43,560 Ft²/Acre = ______ feet. Pavement area _____ acres ÷ R.O.W. area _____ acres x 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. X ATTACHMENT B - Volume and Character of Stormwater. A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on 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:

0_% Domestic	0	gallons/day
0 % Industrial	0	gallons/day
0 % Commingled	0	gallons/day

TOTAL 0 gallons/day

15. Wastewater will be disposed of by:

N/A **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. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
- 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.

<u>N/A</u> 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. <u>N/A</u> All private service laterals will be inspected as required in 30 TAC §213.5.

SITE PLAN REQUIREMENTS

Items 17 through 27 must be included on the Site Plan.

- 17. The Site Plan must have a minimum scale of 1" = 400'. Site Plan Scale: 1" = 100'.
- 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.
 - X 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 #48091C0430F, revised September 2, 2009

- 19. ____ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
 - X The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
- 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
 - X There are <u>0</u>(#) 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.
 - X 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.
 - X No **sensitive** geologic or manmade features were identified in the Geologic Assessment.
 - ____ ATTACHMENT D Exception to the Required Geologic Assessment. An exception to the Geologic Assessment requirement is requested and explained at the end of this form.
- 22. <u>N/A</u> The drainage patterns and approximate slopes anticipated after major grading activities.

23. X Areas of soil disturbance and areas which will not be disturbed.

- 24. <u>X</u> Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. X Locations where soil stabilization practices are expected to occur.
- 26. <u>N/A</u> Surface waters (including wetlands).
- 27. ____ Locations where stormwater discharges to surface water or sensitive features.
- X There will be no discharges to surface water or sensitive features.

ADMINISTRATIVE INFORMATION

- 28. X 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.
- 29. X Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

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:

HARMON 5 INNS Print Name of Customer/Agent 4/4 Signature of Custo Date CHAPMAN

Parolas Maroliey Dor Mic

Attachment A

FACTORS AFFECTING WATER QUALITY

Factors that could affect surface water and ground water quality are:

- 1) Fine particles produced during grading and construction activities.
- 2) Fluids released from construction equipment.

Attachment B

VOLUME AND CHARACTER OF STORMWATER

Storm water passing through the construction activity will be filtered by a combination of silt fences, rock berms and vegetative filter strips before entering existing drainage pathways, in order to maintain storm-water quality at substantially pre-construction levels. Storm-water impact will also be minimized by performing construction activities during the dry winter months.

The tower construction area and access easement are located on generally flat, grassland with small trees, brush, small limestone rocks and stony clay loam soil. During construction, any necessary clearing of trees and brush will be done using techniques that result in minimal soil disturbance. Any disturbed soil, such as that "dislocated" as part of a root ball when it is removed from the ground, must be tamped gently back in place so that vegetation roots suffer as little long-term damage as possible. Grubbing out of mesquite trees will be followed by mowing of native grasses in order to spread seed and accelerate vegetative growth. All construction will be performed with temporary storm-water controls in place on the downslope sides of all disturbed ground.

A tower with anchor supports and one small building will be constructed, and then a 15-foot-wide vegetative filter strip with supporting soils will be improved along the downslope perimeter of the tower site. Compacted gravel will be used for the 12-foot wide driveway into the tower site. The remaining surface cover of the property will be native vegetation.

The pre-construction run-off coefficient is estimated to be in the range of 0.30 to 0.44, whereas the post-construction run-off coefficient for the entire site will fall into the range of 0.36 to 0.50.

The vegetative filter strips in the tower construction area and along the access easement should assure that water quality downslope of the filter strips is maintained at or near pre-construction levels.

Attachment C

SUITABILITY LETTER FROM AUTHORIZED AGENT

Not applicable. The site activities do not generate any wastewater requiring disposal.

Attachment D

EXCEPTION to the REQUIRED GEOLOGIC ASSESSMENT

Not applicable. The Geologic Assessment has been included in this report.



Temporary Stormwater Form and Temporary BMPs

Temporary Stormwater Section

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

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:
 - ____ Aboveground storage tanks with a cumulative storage capacity of less that 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.
 - X Fuels and hazardous substances will not be stored on-site.
- 2. <u>X</u> ATTACHMENT A Spill Response Actions. A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.
- 3. <u>X</u> 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. <u>X</u> ATTACHMENT B Potential Sources of Contamination. Describe in an attachment at the end of this form any other activities or processes which may be a potential source of contamination.
 - ____ There are no other potential sources of contamination.

SEQUENCE OF CONSTRUCTION

- 5. <u>X</u> 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 provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.
- 6. <u>X</u> 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: <u>Dry Comal Creek</u>

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. <u>X</u> ATTACHMENT D Temporary Best Management Practices and Measures. A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
 - X 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 has been provided in the attachment at the end of this form
 - a. A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates up-gradient from the site and flows across the site.
 - b. 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.
 - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - d. 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 provided at the end of this form. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 X There will be no temporary sealing of naturally-occurring sensitive features on the site.
- 9. <u>X</u> ATTACHMENT F Structural Practices. Describe 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. Placement of structural practices in floodplains has been avoided.
- 10. <u>X</u> ATTACHMENT G Drainage Area Map. A drainage area map is provided at the end of this form to support the following requirements.
 - ____ 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.
 - X 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.

- 11. <u>X</u> 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 has 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 provided as at the end of this form.
- 12. <u>X</u> ATTACHMENT I Inspection and Maintenance for BMPs. A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repairs, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.
- 13. <u>X</u> 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. X 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. <u>X</u> 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. X 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).

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. <u>X</u> 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 at the end of this form.
- 18. <u>X</u> 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. <u>X</u> Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

ADMINISTRATIVE INFORMATION

20. X All structural controls will be inspected and maintained according to the submitted and

approved operation and maintenance plan for the project.

- 21. X 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. X 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.

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:

HARMAN

Print Name of Customer/Agent

Signature of Customer/Agent

Dollas M'Goolien

Amended Attachment A

SPILL RESPONSE ACTIONS

*Please note that a release of more than 25 gallons of petroleum products requires immediate reporting to TCEQ (San Antonio 210/490-3096)

- 1) In case of any discharge discovery, on-site personnel will begin work to stop the discharge, place barriers to movement of the discharge along the drainage path, clean up the discharged material and notify the proper authorities. General response procedures are listed below.
- 2) Recovered materials may include fuel, absorbents containing fuel, soils and pavements contaminated by fuel, and water contaminated by fuel. All materials will be handled as hazardous material and stored within proper containment (for instance, liquids placed in drums; soils or other solids placed on heavy plastic sheeting and wrapped to avoid significant vapor loss or stormwater mixing). Once the materials have been sampled or otherwise screened, they may be disposed of to fuel recyclers, qualified landfills, or possibly treated on site to levels below regulatory limits. Consultation with a qualified environmental services company is strongly recommended.

In the event of a spill or other product release to the environment at the site, the following general procedures are to be followed as applicable:

- 1. STOP the source of spill or other release as fast as possible, by the most safe and practical means available;
- 2. IF IT IS SAFE TO DO SO, CONTAIN AND CLEAN UP the product released to prevent further spreading and additional environmental contamination. Containment will be performed with materials from the spill response kit available on site, or with dirt diking, or by any other practical means available;
- **3.** CONTACT company officials immediately with a description of the type and nature of release. If there is a potential for the release to leave the site property or pose an environmental hazard, contact the local fire department and the emergency response center;
- 4. SECURE the area around the release. Cordon off the area deemed unsafe due to spillage and fumes. Establish a safe area, based on wind direction and other factors, where employees can stage without exposure to spillage and fumes. Minimize flame and spark hazards. Mobilize all available manpower and equipment necessary to respond to the release, to contain and clean up the release in accordance with federal, state and local regulatory agencies' requirements;
- 5. All contaminated materials generated during the containment process and/or clean-up activities shall be recovered, stored, hauled and disposed of in accordance with federal, state and local regulatory agencies' requirements. For further disposal information and planning for proper disposal, contact Company's environmental contractor(s) or other approved vendors;

- 6. Company officials shall notify TCEQ and other applicable regulatory agencies within 24 hours of the release event's discovery if more than 25 gallons of petroleum product was released;
- 7. All required reports should be filed with appropriate agencies within applicable time frames after the release event's discovery;
- 8. Immediate action will be taken by company officials and/or employees to correct the cause of the release and to prevent the possibility of a reoccurrence;
- **9.** If fire is involved that is, a release leads to ignition of product the fire will be allowed to burn until all released, flammable product has been burned as completely as possible. Flooding with excessive amounts of water to fight the fire may result in more environmental damage than the fire itself. Water flooding may cause contamination of a wider area, increasing the environmental risk as well as the total cost of cleanup;
- 10. A product release may threaten human life, through potential for fire, explosion and inhalation of fumes or suffocation. If you cannot safely contain and clean up the release, CLEAR THE AREA AND TAKE PROPER SAFETY MEASURES. Environmental damage from a product release is bad, but injury or loss of human life is worse.

Emergency Response List

Emergency Phone Number
911
214/665-2253
214/665-6489
800/832-8224
210/490-3096
210/387-5725

Amended Attachment B

POTENTIAL SOURCES OF CONTAMINATION

Other activities or processes which may be a potential source of contamination are fluids that may leak or be released from the construction equipment.

A critical facet of construction equipment use is the fueling, lubrication and other maintenance of equipment while it is on site. Extra care must be taken by fuelers, oilers and mechanics during this work to avoid spillage or other release of fuels, lubricants, etc. There will be **no** refueling or maintenance of construction equipment performed on this site.

Attachment C

SEQUENCE OF MAJOR ACTIVITIES

The major activities which will disturb soils at the site during construction include the following:

- Clearing and grubbing of vegetation within the access easement and tower location where necessary (less than 0.24 acre);
- Installation of temporary BMPs (less than 0.02 acre);
- Excavation, filling and grading for structure foundations and driveway (less than 0.04 acre);
- Trenching, installation of utilities, filling and re-vegetation along trench (less than 0.01 acre);
- Installation or improvement of permanent BMPs (less than 0.11 acre);
- Removal of temporary BMPs (less than 0.02 acre).

Clearing and grubbing of some vegetation is necessary on this project, but the work must be limited to the careful removal of trees and shrubs. Root balls should be removed with the trees and shrubs whenever possible. All reasonable effort should be made to remove soil from the root ball, retaining that soil to be gently repacked in the depression opened by root ball removal. Disturbance of soils and grasses should be kept to the minimum possible extent, so that native grass cover and root zone continue to hold soils in place during rainfall events.
Attachment D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

A combination of silt fences, rock berms and a rock-bedded construction entrance/exit will be used in locations shown on the following Temporary BMPs Plan map. The location of the rock berm may be modified based on field conditions observed during construction. The temporary BMPs will be installed on the downslope side of the construction area and the driveway. The silt fences and rock berms will filter out particles mobilized by storm water from the construction site before leaving the property. A construction entrance/exit will be installed for the arresting of soil and mud gathered by vehicles traversing through the construction area. All temporary BMPs will be constructed as described on the attached detail drawings. There are no sensitive geologic features or surface water features located on the property. All temporary BMPs will be installed as the site is cleared, and then removed once the construction has been completed and the soil disturbance is sufficiently stabilized, or when permanent controls are implemented. Below is a list of general notes pertaining to each type of temporary BMP utilized for this site.

<u>Silt Fences</u> are used to intercept sediment while allowing stormwater to percolate through the fence. These fences are not utilized in areas of concentrated flow. Fence posts should be installed with a slight angle towards the uphill side of the fence. Posts shall be made of steel and placed at least one foot into the ground and spaced no more than eight feet apart. The silt fence fabric is to be buried on the toe of the uphill side of the fence to a depth of at least eight inches and backfilled with compacted material. Woven wire backing that supports the fabric will be galvanized wire. Fabric and wire must be securely fastened to posts with three feet of overlap where the fabric ends meet.

<u>Rock Berms</u> are used in areas with concentrated flow to intercept sediment while allowing stormwater to percolate through the berm. Small, three- to five-inch diameter rock is enclosed within a woven wire mesh to ensure rock berm stability during incidents of stormwater flow. In areas of large flow volume, five- to eight-inch diameter rocks should be used. In areas of low-flow volume, the wire mesh may be omitted. The berm is constructed perpendicular to the anticipated flow of stormwater and is most effective when placed within a three- to four-inch trench with the ends meeting the existing grade. Standard dimensions are indicated on the attached drawing.

A <u>Rock-Bedded Construction Entrance/Exit</u> is utilized to provide a stable entrance/exit for construction vehicles and to limit or eliminate tracking or flow of sediment onto public roadways. Geotextile fabric will line the bottom of the entrance/exit with at least eight inches of compacted, four-to eight-inch diameter coarse aggregate weighing down the fabric. If the slope towards the road exceeds 2%, then a ridge will need to be constructed (as shown in detail drawing) to divert stormwater flow.





Page 11 of 21



PROF ILE





Rock-Bedded Construction Entrance/Exit

Attachment E

REQUEST TO TEMPORARILY SEAL A FEATURE

Not applicable. No temporary sealing of naturally occurring sensitive features will occur at the site.

Attachment F

STRUCTURAL PRACTICES

Runoff and the discharge of pollutants from exposed areas of the site will be limited by the following structural control practices:

- Silt fences;
- Rock berms;
- Rock bedding at construction entrance/exit.

These storm-water pollution control features will slow the velocity of runoff and enhance on-site sedimentation and capture of contaminants that may accumulate in storm water runoff exiting this development.

OTHER CONTROLS

Additional erosion, sediment, and pollution control practices include the following:

- Excavation material shall be placed on the uphill side of the trench when possible and/or applicable;
- Loaded haul trucks will be covered with tarpaulins;
- Any excess dirt tracked off-site shall be removed from roads daily;
- Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters.

Attachment G

DRAINAGE AREA MAP

Less than ten acres will be disturbed for this project. The entire site is part of a 3.0-acre drainage area that outfalls into unnamed tributaries of Dry Comal Creek. On-property temporary sediment controls for the drainage area are indicated on the map included in Attachment D.

Attachment H

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

No temporary sediment ponds or basins will be constructed at this site. Temporary BMPs for the site include: silt fence; rock berm, and a construction entrance/exit. Design plans for the temporary BMPs are included in Attachment D.

Amended Attachment I

INSPECTION AND MAINTENANCE FOR BMPS

An inspection will be performed by a qualified inspector every 7 days and/or within 24 hours of every one-half inch or more of rain (as recorded on a non-freezing rain gauge to be provided and installed by the contractor at the project site). An inspection and maintenance report will be completed in writing for each inspection. Based on the inspection results, the controls shall be revised per the inspection report. If repairs are necessary, they shall be initiated within 24 hours of the report.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

If modifications or additional temporary BMPs are necessary, changes must be implemented before the next storm event or as soon as practicable.

Every inspection report must be kept with the WPAP.

Inspection Criteria for erosion and sediment controls are as follows:

- The site preparation and construction-stage erosion and sediment controls are designed to retain sediment on site to the extent practical;
- All control measures must be properly installed and maintained in accordance with manufacturer's specifications and with project specifications;
- If sediment escapes the construction site, off-site accumulations of sediment must be removed immediately;
- Sediment must be removed from sediment traps when design capacity has been reduced by 50%, or sediment is more than 3 inches in depth. Excess sediment should be removed by hand or with flat-bottomed shovels. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level with the bottom of the swale. Sediment removal should be performed periodically, as determined through inspection;
- Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm-water discharges;
- The construction entrance shall be maintained in a condition which will prevent/minimize tracking or flowing of sediments onto public roadways. Sediments spilled, dropped, washed or tracked onto public roadway must be removed immediately;
- Silt fences must be maintained to insure the following:
 - Torn fabric is replaced and loose fabric is properly secured;
 - Loose post supports are plumbed and strengthened;
 - Fabric bottom is buried as anchor for the silt fence face;
- Rock berms shall be cleaned by lifting, dropping and reshaping the stones as required. They should be maintained to insure positive drainage, and so that breaks are promptly repaired
- Rock-bedded construction entrance/exit shall be maintained to insure the following:
 - Sediment does not wash or track onto public road;
 - Foundation is stable but not too compacted, or too silted to hinder effectiveness.

Inspection Record

Date: _____

Pollution Prevention Measure	Condition	Comments/Description
General	Les States	
Revegetation		
Silt fences (torn, secured, silt buildup)		
Rock berms (silt buildup, draining, intact)		
Vehicle exits (silt buildup, compacted)		
Material areas		
Equipment areas		
Concrete rinse		
Construction debris		
Dumpsters		
Infrastructure		
Roadway clearing		
Utility clearing		
Roadway grading		
Utility construction		
Drainage construction		
Roadway base		
Site cleanups		
Building		
Clearing for building		
Foundation grading		
Utility construction		
Foundation construction		
Building construction		
Site grading		
Site cleanup		

By my signature below, I certify that all items are acceptable and the project site is in compliance with the WPAP.

Inspector's Name

Inspector's Signature

Name of Jobsite

Date

Temporary Stormwater Section Attachments

Amended Attachment J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Permanent on-site stabilization measures will include the following:

- Permanent seeding or sodding;
- Preservation of natural resources.

PERMANENT SEEDING

Permanent seeding is the establishment of permanent, perennial vegetative cover—usually grass—on disturbed areas. The area must be protected from excess runoff as necessary with upgradient diversion berms or ditches. Plant species must be selected on the basis of quick germination, growth, and time of year to be seeded. Fertilizer, lime, seedbed preparation, seed coverage, mulch, and irrigation must be applied as necessary to promote quick plant growth. The following is a list of general procedures for installing permanent seeding:

- Where compacted soils occur, they should be broken up sufficiently to create a favorable rooting depth of 6–8 inches.
- Grade as needed then spread topsoil where needed.
- Install the needed erosion control practices, such as diversion berms and mulch.
- Spread lime and/or fertilizer as needed.
- Work the lime and fertilizer into the soil to a depth of 4 inches. On sloping land, the final operation must be on the contour.
- Apply seed per manufacturer's instruction.
- Water the soil until the grass is firmly established. This is especially needed when seedings are made late in the planting season, in abnormally dry and hot season, or on sites with steep slopes or other adverse conditions.
- Inspect all seeded areas for failures and make necessary repairs, replacements, reseedings, and remulching within the planting season.

SODDING

Sod consists of rectangular strips of live turf grass held together by matted roots laced through an organic, growing medium. The sod should be machine-cut and contain one-half inch to 1 inch of soil, not including roots or shoots or thatch. Avoid planting when subject to frost or hot weather if irrigation is not available. Sod should not be used on slopes steeper than 2H:1V. If it is to be mowed, installation should be on slopes no greater than 3H:1V. The following is a list of general procedures for installing sod:

- The sod must be kept moist and covered during hauling and preparation for placement on the sod bed and installed within 36 hours of harvesting.
- Compacted soils must be broken up sufficiently to create a favorable rooting depth of 6-8 inches.
- Grade as needed and then spread topsoil where needed.

Temporary Stormwater Section Attachments

- Apply lime and/or fertilizer as needed.
- Work lime and fertilizer into the soil to a depth of 4 inches.
- Before sodding, the soil surface must be cleared of all trash, debris, and stones larger than 1.5 inches in diameter, and of all roots, brush, wire, and other objects that would interfere with the placing of the sod.
- After the lime and fertilizer have been applied (if applicable) and just before laying the sod, the soil in the area to be sodded must be loosened to a depth of one inch. The soil must be thoroughly dampened immediately after the sod is laid if it is not already in a moist condition. During periods of high temperature, the sod needs to be lightly irrigated prior to installation.
- No sod should be placed when the temperature is below 32° F. No frozen sod must be placed nor should any sod be placed on frozen soil. Sod should not be installed in excessively wet or dry conditions.
- Sod should be carefully placed and pressed together so it will be continuous without any voids between the pieces. Stagger the joints between the ends of strips in a brick-like pattern. Ensure that the edge of the sod at the outer edges of all gutters is sufficiently deep so that the surface water will flow over onto the top of the sod.
- On gutter and channel sodding, carefully place the sod on rows or strips at right angles to the centerline of the channel (i.e., at right angles to the direction of flow).
- On steep, graded channels, stake each strip of sod with at least two stakes not more than 18 inches apart. The stakes should be wooden and approximately 1/2" H 3/4" H 12". Drive in the stakes flush with the top of the sod and with the flat side against the slope.
- On slopes 3:1, or steeper, and areas where erosion could be a problem, roll or tamp the sod and then peg chicken wire, jute, or other netting over the sod for protection in the critical areas. Stake the netting and sod with at least two stakes not more than 18 inches apart. The stakes should be wooden and approximately 1/2" H 3/4" H 12". Drive the stakes with the flat side against the slope and on an angle toward the slope. Staple the netting on the side of each stake within 2 inches of the top of the stake, and then drive the stake flush with the top of the sod.
- The sod should be tamped or rolled after placing and then watered. Watering must consist of a thorough soaking of the sod and of the sod bed to a depth of at least 4 inches. Maintain the sod in a moist condition by watering for a period of 30 days.
- Inspect sod weekly and after each rain event following installation to check on moisture conditions and grass viability. Make any required repairs as soon as practical. Irrigate sod immediately after installation and every few days afterwards if no significant rainfall occurs during the first 2 weeks. Soak the area thoroughly to a depth of 3 inches during irrigation.
- Where sodding does not establish properly, remove the old sod and re-sod the area as soon as possible. Identify the cause of the failure and correct it as soon as possible.
- Once established, initiate a regular maintenance program for fertilization (if needed) and mowing. The first mowing should not be attempted until the roots are firmly established (about 2 - 3 weeks) Cut no more than one third of the grass blade during any mowing event.

Disturbed areas on which construction activity has ceased (temporarily or permanently) shall be stabilized within 14 days unless further activities are scheduled, and resume within 21 days.

Where snow cover or frozen ground conditions hinder the initiation of stabilization measures by the 14th day, the stabilization measures must be initiated as soon as it is practical.

In arid areas, semiarid areas, and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased, stabilization measures must be initiated as soon as practicable. Where vegetative controls are not feasible due to arid conditions, the operator shall install non-vegetative erosion controls or temporary sediment controls. The operator must document in the WPAP the reason why stabilization measures are not feasible, and must demonstrate that the perimeter controls will retain sediment on site to the maximum practical extent.

94/4/n

Permanent Stormwater Form and Permanent BMPs

Permanent Stormwater Section

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

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

- 1. <u>X</u> Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
- 2. X 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.
 - X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - 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 provided below:
- 3. <u>X</u> 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.
- 4. <u>X</u> 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.
 - ____ This site will be used for low density single-family residential development and has 20% or less impervious cover.
 - ____ This site will be used for low density single-family residential development but has more than 20% impervious cover.
 - X This 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 multifamily 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.** This 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 found at the end of this form.
- ____ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- X This site will not be used for multi-family residential developments, schools, or small business sites.

6. ATTACHMENT B - BMPs for Upgradient Stormwater.

- X 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 identified as **ATTACHMENT B** at the end of this form.
- If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as ATTACHMENT B at the end of this form.
- _____ If 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, an explanation is provided as **ATTACHMENT B** at the end of this form.

7. ATTACHMENT C - BMPs for On-site Stormwater.

- <u>X</u> 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 identified as **ATTACHMENT C** at the end of this form.
- ____ If 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, an explanation is provided as **ATTACHMENT C** at the end of this form.
- 8. <u>X</u> 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 provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" has been addressed.
- 9. <u>N/A</u> 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" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring "sensitive" or "possibly sensitive" features on this site.
 - ____ ATTACHMENT E Request to Seal Features. A request to seal a naturallyoccurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature.
- 10. <u>X</u> **ATTACHMENT F Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ

Construction Notes, all man-made or naturally occurring geologic features, all proposed structural measures, and appropriate details must be shown on the construction plans.

- 11. <u>X</u> ATTACHMENT G Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.
- 12. <u>X</u> The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.
 - **ATTACHMENT H Pilot-Scale Field Testing Plan.** A plan for pilot-scale field testing is provided at the end of this form.
- 13. X 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 provided at the end of this form. 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.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

- 14. X 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.
- 15. <u>N/A</u> 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.

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:

UNOPMAN IS WIN Print Name of Customer/Agent Signature of Custone Date C. CHAPMAN I TCEQ-0600 (Rev. 10/01/0

Dovolar Mc Gookey

Attachment A

20% OR LESS IMPERVIOUS COVER WAIVER

The site will not be used for a multi-family residential development, school or small business, and is not eligible for the impervious cover waiver.

Attachment B

BMPs FOR UP-GRADIENT STORMWATER

The site will utilize permanent vegetative filter strips to filter out particles from storm water prior to that water leaving the property. Up-gradient storm water that flows through the property is filtered through these strips as well. Vegetative filter strips are utilized in areas of low-velocity flow for the filtration of fine particles from within storm water. The vegetative filter strip will consist of dense, natural vegetation with a slope of less than five percent. The entirety of vegetative filter strip areas will be under the control of the applicant and maintained as detailed below. The vegetative filter strips will be maintained in the areas indicated on the following Permanent BMP map with a minimum width of 15 feet perpendicular to the flow of storm water. Weeding (if applicable), replanting and general maintenance should be done more frequently in the first couple of years until the site vegetation is well-established. Basic maintenance of the vegetative filter strips includes:

- With native grasses in place, mowing should be performed a minimum of twice a year with a mulching mower;
- Fertilizer, insecticide and herbicide use should be kept to a minimum;
- Debris and litter should be removed no less than four times a year to reduce "floatables" being washed downstream;
- In the event that excess sediment accumulates and interferes with flow patterns, the excess sediment should be removed by hand or with flat-bottomed shovels;
- Bare spots and eroded areas must by filled, compacted, reseeded and restored as quickly as possible with similar native grasses;
- Irrigation may be required during dry periods to maintain vegetative health and site stability.

The required or recommended schedule of inspection for vegetative filter strips is described in Attachment G, below.

Attachment C

BMPs FOR ON-SITE STORMWATER

Vegetative filter strips will be utilized to maintain quality for stormwater originating on-site or flowing through the property. The vegetative filter strips will be constructed as described in Attachment B and placed in the locations indicated on the Permanent BMP map. Once the site has become stabilized and the permanent BMPs are in place, regular operational use, routine maintenance, and inspections by the Applicant are the only activities anticipated. Soils may be disturbed by these typical operations, and the vegetative filter strips are intended to reduce sediment particles leaving the property, long-term. No other contaminant types are expected in the future.

Attachment D

BMPs for Surface Streams

No sensitive features were identified in the Geologic Assessment. Vegetative filter strips described in Attachment B will be utilized to maintain stormwater quality before the stormwater leaves the property and enters the surface stream southeast of the property.

Attachment E

REQUEST TO SEAL FEATURES

Not applicable. No sealing of naturally occurring sensitive features will occur at the site. No sensitive features were identified on the property in the Geologic Assessment.

Amended Attachment F

CONSTRUCTION PLANS

The site will utilize permanent vegetative filter strips to filter out particles from storm water prior to that water leaving the property. Up-gradient stormwater that flows through the property is filtered through these strips as well. Vegetative filter strips are utilized in areas of low-velocity flow for the filtration of fine particles from within storm water.

The vegetative filter strip will consist of dense, natural vegetation with a slope of less than five percent. The entirety of vegetative filter strip areas will be under the control of the applicant and maintained as detailed below. The vegetative filter strips will be maintained in the areas indicated on the following Permanent BMP map with a minimum width of 15 feet perpendicular to the flow of storm water.

The vegetative filter strip soil surface should be hydro-seeded and fertilized in a single treatment, or amended with native grass seed and composted mulch (one inch, average, of free mulch thickness to be mixed with native soil as available).

Vegetated filter strips require regular inspection to ensure proper distribution of flows, examine for signs of rill formation, and check for and remove accumulated sediment. Weeding, replanting and general maintenance should be done more frequently in the first couple of years until the site is well-established.

Basic maintenance of the vegetative filter strips includes:

- With native grasses in place, mowing should be performed a minimum of twice a year with a mulching mower;
- Fertilizer, insecticide and herbicide use should be kept to a minimum;
- Debris and litter should be removed no less than four times a year to reduce "floatables" being washed downstream;
- In the event that excess sediment accumulates and interferes with flow patterns, the excess sediment should be removed by hand or with flat-bottomed shovels;
- Bare spots and eroded areas must by filled, compacted, reseeded and restored as quickly as possible with similar native grasses;
- Irrigation may be required during dry periods to maintain vegetative health and site stability.

The required or recommended schedule of inspection for vegetative filter strips is described in Attachment G, below.



Attachment G

INSPECTION, MAINTENANCE, REPAIR and RETROFIT PLAN

Vegetative filter strips should be inspected at least monthly during the first few months after establishment to identify and repair problems. An additional inspection should be conducted after every heavy rainfall event to determine the effectiveness of the controls. These inspections and maintenance activities should reduce weed production and insect infestation, which will in turn reduce any need for chemical use. Bare spots and erosion concerns should be addressed immediately to prevent further damage. Once the vegetative filter strips are well-established with minimal further attention required according to inspection data, inspections can be reduced to no less than four times a year.

All inspections are to be documented through completion of the attached form. Records should be kept with a copy of the WPAP. The vegetative filter strips should be maintained as described in Attachment B.

Inspection Record

Date: _____

Pollution Prevention Measure	Condition	Comments/Description
General		
Vegetative Growth/Height		
Bare spots		
Weed growth		
Excess sediment		
Insect nuisance		
Animal nuisance		
Debris/trash		
Drainage pathways		

Need to be Scheduled	Yes	No	Comments/Description
Mowing			
Insect pest control (specify type)			
Animal pest control (specify type)			
Removal of sediment			
Removal of debris/trash (specify amount/equipment necessary)			

Additional Comments:

By my signature below, I certify that all items are acceptable and the project site is in compliance with the WPAP.

Inspector's Name

Inspector's Signature

Name of Jobsite

Date

Water Pollution Abatement Plan Attachments

Attachment H

PILOT-SCALE FIELD TESTING PLAN

Not applicable. The TCEQ Technical Guidance Manual was utilized to design the permanent BMPs for this site.

Attachment I

MEASURES for MINIMIZING SURFACE STREAM CONTAMINATION

Vegetative filter strips will be utilized to maintain storm-water quality before that water enters the unnamed tributary of Dry Comal Creek. The installation and maintenance of the vegetative filter strips are described in Attachments B, F and G, with inspection criteria outlined in Attachment G. The use of native grasses allows no change to the existing grade of the property. There will be no grading activities during the construction of the tower site that would alter the flow velocity of storm water flowing through the property once permanent controls have been established. Regular inspections and maintenance of the controls will prevent alteration in drainage pathways on the property. The controls will prevent the property improvements from causing an increase of stream flashing, stronger flows, increased in-stream velocities and other erosion-related effects on the tributary.

Bryan W. Shaw, Ph.D., *Chairman* Buddy Garcia, *Commissioner* Carlos Rubinstein, *Commissioner* Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 15, 2011

RECEIVED

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

FEB 1 7 2011

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County PROJECT NAME: Country Side Tower Site sx3239, located approximately 100 feet east of the Schoenthal Road and FM 1863 intersection, New Braunfels, Texas PLAN TYPE: Application for Approval of a Water Pollution Abatement Plan, 30 Texas Administration Code (TAC) Chapter 213; Edwards Aquifer Protection Program EAPP File No.: 2962.00

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.

Please forward your comments to this office by March 14, 2011.

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

Todd Jones Water Section Work Leader San Antonio Regional Office

TJ/eg

TCEQ Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

WATER POLLUTION ABATEMENT PLAN



RECEIVED FEB 1 7 2011 COUNTY ENGINEER

COUNTRYSIDE TOWER SITE SITE NO. SX3239 COMAL COUNTY, TEXAS

Prepared for:

TCEQ-R13

Texas Commission on Environmental Quality 14250 Judson Road San Antonio, Texas 78233

FEB 11 2011 SAN ANTONIO

Prepared by: Medina Consulting Company, Inc. 6391 De Zavala, Suite 113 San Antonio, Texas 78249

and

Chapman Engineering 213 Commerce Avenue Boerne, TX 78006

Project Nº 221-0042 February 2, 2011



February 2, 2011

Mr. Alan Jones Texas Commission on Environmental Quality 14250 Judson Road San Antonio, Texas 78233

RECEIVED FEB 1 7 2011 COUNTY ENGINEER

Water Pollution Abatement Plan Countryside Tower Site (SX3239) Comal County, Texas

Dear Mr. Jones:

Medina Consulting Company, Inc. (MCC) in conjunction with Chapman Engineering completed a Water Pollution Abatement Plan (WPAP) for the proposed Countryside Tower Site, which is located at 11844 Farm-to-Market Road 1863 in Comal County, Texas. The Site is approximately 0.5 mile east of the intersection of Farm-to-Market Road 1863 and Countryside Drive and approximately 7.4 miles northwest of downtown New Braunfels. The proposed 195-foot tall monopole cellular tower will be located within a 100-foot by 100-foot tower compound. The tower compound will be accessed by a proposed 500-square foot access road from Farm-to-Market Road 1863. The parent property is an approximate 76.069-acre tract of land that contains the Site and agricultural farmland.

We appreciate your consideration of the submittal and look forward to your response.

Very Truly Yours, Medina Consulting Company, Inc.

n Mra

Douglas McGookey, PG Principal Geologist

Copies Submitted: (6) Mr. Alan Jones; Texas Commission on Environmental Quality

Water Pollution Abatement Plan Checklist

- X General Information Form (*TCEQ-0587*) ATTACHMENT A - Road Map ATTACHMENT B - USGS / Edwards Recharge Zone Map ATTACHMENT C - Project Description
- <u>X</u> Geologic Assessment Form (*TCEQ-0585*) ATTACHMENT A - Geologic Assessment Table (*TCEQ-0585-Table*) Comments to the Geologic Assessment Table ATTACHMENT B - Soil Profile and Narrative of Soil Units ATTACHMENT C - Stratigraphic Column ATTACHMENT D - Narrative of Site Specific Geology Site Geologic Map(s) Table or list for the position of features' latitude/longitude (if mapped using GPS)
- X Water Pollution Abatement Plan Application Form (*TCEQ-0584*) ATTACHMENT A - Factors Affecting Water Quality ATTACHMENT B - Volume and Character of Stormwater ATTACHMENT C - Suitability Letter from Authorized Agent (if OSSF is proposed) ATTACHMENT D - Exception to the Required Geologic Assessment (if requesting an exception) Site Plan
- X Temporary Stormwater Section (*TCEQ-0602*)
 - ATTACHMENT A Spill Response Actions ATTACHMENT B - Potential Sources of Contamination ATTACHMENT C - Sequence of Major Activities ATTACHMENT D - Temporary Best Management Practices and Measures ATTACHMENT E - Request to Temporarily Seal a Feature, if sealing a feature ATTACHMENT F - Structural Practices ATTACHMENT F - Structural Practices ATTACHMENT G - Drainage Area Map ATTACHMENT G - Drainage Area Map ATTACHMENT H - Temporary Sediment Pond(s) Plans and Calculations ATTACHMENT I - Inspection and Maintenance for BMPs ATTACHMENT J - Schedule of Interim and Permanent Soil Stabilization Practices
- X Permanent Stormwater Section (*TCEQ-0600*)

ATTACHMENT A - 20% or Less Impervious Cover Waiver, if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site ATTACHMENT B - BMPs for Upgradient Stormwater ATTACHMENT C - BMPs for On-site Stormwater ATTACHMENT D - BMPs for Surface Streams ATTACHMENT D - BMPs for Surface Streams ATTACHMENT E - Request to Seal Features (if sealing a feature) ATTACHMENT F - Construction Plans ATTACHMENT F - Construction Plans ATTACHMENT G - Inspection, Maintenance, Repair and Retrofit Plan ATTACHMENT H - Pilot-Scale Field Testing Plan, if BMPs not based on *Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs* ATTACHMENT I -Measures for Minimizing Surface Stream Contamination

- X Agent Authorization Form (*TCEQ-0599*), if application submitted by agent
- X Application Fee Form (*TCEQ-0574*)
- X Check Payable to the "Texas Commission on Environmental Quality"
- X Core Data Form (TCEQ-10400)



2011 FEB 11 PM 4: 24

General Information Form

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

REGULATED ENTITY NAM COUNTY: <u>Comal</u>	E: Countryside Tower		SX 3239) REAM BASIN: Dry Comal Creek
EDWARDS AQUIFER:	<u>×</u> RECHARGE ZOI TRANSITION ZC		
PLAN TYPE:	× WPAP SCS	AST UST	EXCEPTION MODIFICATION

CUSTOMER INFORMATION

1. Customer (Applicant):

Contact Person:	Wilder Castillo	
Entity:	American Tower Corporation	
Mailing Address:	16500 Henderson Pass. Suite 309	
City, State:	San Antonio. Texas	Zip: _78232
Telephone:	210 387-6450	FAX: Wilder.Castillo@americantower.com

Agent/Representative (If any):

Contact Person:	Douglas McGookev, PG	
Entity:	Medina Consulting Company. Inc.	
Mailing Address:	6391 De Zavala, Suite 113	
City, State:	San Antonio, Texas	Zip: 78239
Telephone:	210 694-4545	FAX: 210 694-4577
Mailing Address: City, State:	<u>6391 De Zavala, Suite 113</u> San Antonio, Texas	

This project is inside the city limits of ______

This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of

- x This project is not located within any city's limits or ETJ.
- 3. 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 Site is located at 11844 FM 1863. The Site lies on the south side of FM 1863 about 1,000 feet east of the intersection of Schoenthal Road and FM 1863.

- 4. <u>x</u> **ATTACHMENT A ROAD MAP.** A road map showing directions to and the location of the project site is attached at the end of this form.
- 5. <u>x</u> ATTACHMENT B USGS / EDWARDS RECHARGE ZONE MAP. A copy of the official 7 ¹/₂ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached behind this sheet. The map(s) should clearly show:

		General Information Form For Regulated Activities on the Edwards Aquifer Recharge and Transition Relating to 30 TAC §213.4(b) & §213.5(b) Effective June 1, 1999				
REGU COUN	LATED ENTITY NAN TY: <u>Comal</u>	ME: Countryside Tower Site (Site No. SX 3239	9) BASIN: <u>Dry Comal Creek</u>			
EDWA	RDS AQUIFER:	<u>×</u> RECHARGE ZONE TRANSITION ZONE				
PLAN	TYPE:	<u>×</u> WPAP AST SCS UST				
CUST	OMER INFORMATIC	ИС				
1.	Customer (Applican	nt):				
	Contact Person: Entity: Mailing Address: City, State: Telephone: Agent/Representativ Contact Person: Entity: Mailing Address: City, State:	210 387 572 5 363 - 6459 F. Cuilded, C4 ve (If any): Douglas McGookev, PG Medina Consulting Company. Inc. 6391 De Zavala, Suite 113 San Antonio, Texas Z	ip: <u>78232</u> AX: SKNOQamican to ver, com			
2.	Telephone: 210-694-4545 36-3-4-4590 FAX: 210 694-4577 Image: Complexity of the project is inside the city limits of the project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of the complexity of the project is not located within any city's limits or ETJ. Image: Complexity of the project is not located within any city's limits or ETJ.					
3.	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 Site is located at 11844 FM 1863. The Site lies on the south side of FM 1863 about 1,000 feet east of the intersection of Schoenthal Road and FM 1863.					
4.		ENT A - ROAD MAP. A road map showing inte is attached at the end of this form.	directions to and the location of			
5.	official / 1/2	ENT B - USGS / EDWARDS RECHARG minute USGS Quadrangle Map (Scale one is attached behind this sheet. The ma	e: 1" = 2000') of the Edwards			

- Project site. X
- USGS Quadrangle Name(s). X
- Boundaries of the Recharge Zone (and Transition Zone, if applicable). X
- Drainage path from the project to the boundary of the Recharge Zone. х
- Sufficient survey staking is provided on the project to allow TCEQ regional staff to 6. X locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment. The TCEQ must be able to inspect the project site or the application will be returned.
- 7. ATTACHMENT C - PROJECT DESCRIPTION. Attached at the end of this form is a X detailed narrative description of the proposed project.
- 8. 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

- 9. I am aware that the following activities are prohibited on the **Recharge Zone** and are х not proposed for this project:
 - waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating (1)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;
 - the use of sewage holding tanks as parts of organized collection systems; and (4)
 - (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).
- 10. I am aware that the following activities are prohibited on the Transition Zone and are X not proposed for this project:
 - waste disposal wells regulated under 30 TAC Chapter 331 (relating to (1)Underground Injection Control);
 - (2)land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (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

- 11. The fee for the plan(s) is based on:
 - For a Water Pollution Abatement Plan and Modifications, the total acreage of the site X where regulated activities will occur.
 - For an Organized Sewage Collection System Plans and Modifications, the total linear

footage of all collection system lines.

- ____ For a UST Facility Plan or an AST Facility Plan, 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.
- 12. 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)
 - <u>x</u> San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
- 13. <u>x</u> 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.
- 14. <u>x</u> 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.

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:

Douglas McGookey, PG Print Name of Customer/Agent

Miz

Signature of Customer/Agent

2-1-4

Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.






ATTACHMENT C: PROJECT DESCRIPTION

Countryside Tower Site (Site No. SX 3239)

The proposed project is the installation of a 195-foot-tall, self-support cellular communications tower and associated equipment building, compound, fence, and access road. The facility name is the Countryside Tower Site (Site No. SX 3239). The proposed cellular communications compound is an approximate 100-foot by 100-foot tract of land at 11844 Farm to Market Road (FM) 1863, which is west of New Braunfels, Texas in Comal County, zip code 78132. The Site is approximately 1,000 feet east of the intersection of Schoenthal Road and FM 1863. The Site is situated along the northern boundary of the parent property that consists of undeveloped land, farmland, and a rural residence. The surrounding area consists of mostly undeveloped or agricultural land with a few rural residential properties.

The only structures to be built that will provide impervious cover are the tower foundation, the foundation for the equipment building, and the compacted gravel driveway. The amount of impervious cover will be 1,420.0 square feet, or 0.0326 acre.

Attached are the design plans for the facility provided by Goodman Networks, Inc., and prepared for AT&T Mobility.

Temporary storm-water controls are required during the construction of site improvements. They will include silt fencing, rock berm, and a rock-bedded construction entrance/exit. Specifications and drawings for these temporary "best management practices" (BMPs) are included in this WPAP package. Also to be used during construction are the undisturbed strips of vegetated landscape, referred to as "vegetative filter strips," which serve to detain silt particles which may wash during rain events from disturbed ground. Each vegetative filter strip must be at least 15 feet in width across the "fall line" (the direction of water "sheet flow"), and must be under the direct control of the tower site owner/operator.

The temporary BMPs can be removed from the construction site once all disturbed soils have been revegetated to at least 70 percent of the original vegetative cover.

The permanent BMPs for storm-water control will be vegetative filter strips only, of the design shown on accompanying drawings.

		atet	
BERT AND		6500 MEST LOOP SOUTH THE FLOOR BELLAIRE, TEASS 77401 (713) 265 - 4640	Innovative Engine=rind DES:GIN Masen Creek Industrial Park 21732 Provincial BVX Suite 130 Katy, Texas 7450 Tat. (201) 380-7885 Far: (201) 380-7885 Far: (201) 380-7885 To CARD FINA Registration No. F-11281 Review Instruments At7/5/2 Instruments
And the second s		239 JNTRYSIDE	
* \ (*		14 FM 1863	at&t
	014 (010) 000 000 000 000 000 000 000 000 000	V BRAUNFELS, TX 78132	6500 WEST LOOP SOUTH 4TH FLOOR
DRIVING DIRECTIONS	UTILITIES	SHEET INDEX	BELLAIRE, TEXAS 77401 (713) 265 - 4640
DRECTIONS RECREMENT FOUL ATEL OFFICE IN SAM ANTONIC, HEAD WORTH ON SAM PEDIDO ANE TOWARD IN RECTOR OR TAKET HE EXIT TOWARD I-ING ILERIDE ONTO I-ING ACCESSE NAS. TAKET NE RAMP ON THE LEUT ANTO TAKET ING TAKET NE EXIT AND I-IS N TOWARD AUSTIN, TAKE EXIT TOWARD FAMI TO LARGET RD 3000/ALTIRAL REDOC/CAVERINS RD, MERCE ONTO EXISTING ALL TAKET ING AND TAKET RD 3000 RC AND TO LARGET RD 3000/ALTIRAL REDOC/CAVERINS RD, MERCE ONTO EXISTING ALL TAKET ING AND TAKET RD 3000 RC AND TO LARGET RD 3000/ALTIRAL REDOC/CAVERINS RD, MERCE ONTO EXISTING ALL TAKET ING AND TAKET RD 3000 RC AND TO LARGET RD 3000 ALTIRAL REDOC/CAVERINS RD, MERCE ONTO EXISTING ALL TAKET RE TAKET ING AND TAKET RD 3000 RC AND TO LARGET RD 3000 ALTIRAL REDOC/CAVERINS RD, MERCE ONTO EXISTING ALL TAKET RD 3000 ALTIRAL RD AL TAKET AT FARM-TO-MARKET RD 1863 E, THE PROPOSED LOCATION WILL BE ON THE RIGHT HAND SDC.	UTILITY ONE CALL CONTRACTOR TO CALL BEFORE DICAMOLIII TEL 1 (800) 245-4545	SHT. NO. DESCRIPTION REV. T.1 TITLE SHEET 0 GN.1 GENERAL NOTES 0	COCOMAN NETWORKS 00000AM NETWORKS 14701 N. US HWY 227, 3UTE 220 SAN ANTORN, IT. 776222 Tel: (210) 060-3301 Fel: (210) 060-4807
PROJECT INFORMATION	POWER COMPANY NEU ELECTRIC TEL (966) 829-8400	GN.2 GENERAL NOTES 0 GN.3 GENERAL NOTES 0	and the second
SCOPE OF WORK: INSTALLATION OF NEW AT&T EQUIPMENT IN A 11'-5" X 20'-0" PRE-FAB CONC. SKELTER AND INSTALLATION OF NEW 195' MONOPOLE TOWER WITH NEW ANTENNAS AND COAVAL CABLES LATITUDE: N29' 42' 34.03" LONGITUDE: W96' 14' 59.43" GROUND ELEVATION: B92' AMSL JURISDICTION: COMAL COUNTY, TEXAS CONSTRUCTION TYPE: NEW 195' MONOPOLE TOWER INSDE OF 100'x100' COMPOUND	TELEPHONE COMPANY ATAT TEL (816) 672-0140	A.1 OVERALL SITE PLAN 0 A.2 ENLARGED SITE PLAN 0 A.3 GRADING PLAN 0 A.4 TOWER ELEVATION 0 A.5 SHELTER ELEVATION 0 A.6 CONSTRUCTION DETAILS 0 A.7 FENCE DETAILS 0 A.8 SHELTER FOUNDATION 0 E.1 SINGLE LINE DIAGRAM 0 E.2 GROUNDING PLANS 0 E.3 GROUNDING DETAILS 0 E.4 GROUNDING DETAILS 0 E.5 GROUNDING DETAILS 0 E.5 GROUNDING DETAILS 0 E.5 GROUNDING DETAILS 0	USEPH S. ABBOUD 05894 07/20/10 THE INTORIATION CONTAINED IN THIS
PROJECT TEAM	APPROVALS	E.7 POWER FRAME DETAILS 0 E.8 TELCO INSTALLATION DETAILS 0	SET OF DOCUMENTS IS PROPIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO
SITE PROPERTY OWNER APPLICANT DESIGN ENGINEER DALE DAMERAU AT& MOBILITY INNOVATIVE EXGINEERING DESIGN 130 N. SOLIAS RO. 6500 WEST LOOP SOUTH, 4TH FLOOR 2132 PROVINCAL BLVD, KATY, TX 77460 CONTACT: DALE DAMERAU CONTACT: SHAWINGHEA THOMPSON CONTACT: JOSEPH ABBOUD, P.E. TEL: 830-8632 FAX: N/A FAX: (713) 984-9133 FAX: (281) 398-7886	PROPERTY OWNER RF ENGNALER		CLEOT NAME IS STRICLY PROHIBITED
SURVEYOR TOWN & COUNTRY LAND SURVEYING 25307 INTERSTATE HWY 145 N THE WOOLMOS, TEXAS 777500 TEL: (281) 445-8730 FAX: (281) 445-8731	CRIQULAR WRL235 CONTRACTOR		11844 FN 1863 NEW BRAINFELS, 1X 78132 Sett Hub T.1 Sett Fnub TITLE SHEET Development R.F. 0450-0079

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY OEM - ORIGINAL EQUIPMENT MANUFACTURE

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILLARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLCABLE CODES, RECULATIONS, AND ORDINANCES, CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTES AND COMPLY WITH ALL LANS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULTIONS.

- 4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTDNANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLIMONS AS INDICATED ON THE DRAWINGS.
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE OWNER.
- 9. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
- 10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 11. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAVAL CABLES AND OTHER TEAMS REMOVED FROM THE EXISTING FACLITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- 12. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS "GEENRAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF ATAT MOBILITY GSM SITES". ANT DEVANION TO FINAL APPROVED DRAWINGS MUST BE REVIEWD AND APPROVED THROUGHT A CHANGE ORDER PROCESS BY THE CONSTRUCTION CONTRACTOR AND OWNER (ATAT MOBILITY)

WOVEN WIRE FENCING NOTES:

(INSTALL FENCING PER ASTLI F-567, SWING GATES PER ASTLI F- 900) 1. GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 7/8'9 SCHEDULE 40 FOR GATE WIDTHS UP THROUGH & FEET OR 10-0URLE SWING GATE PER ASTLI-F1083.

- 2. LINE POST: 2-3/8"# SCHEDULE 40 PIPE PER ASTM-F1083
- 3. GATE FRAME: 1 1/2"# SCHEDULE 40 PIPE PER ASTM-F1083.
- 4. TOP RAIL & BRACE RAL: 1 1/4"# SCHEDULE 40 PIPE PER ASTM-F1083.
- 5. FABRIC: 11 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392 CLASS 1
- The WIRE: MINIMUM 11 GA GALVANIZED STEEL INSTALL A SINGLE WRAP THE WIRE AT POSTS AND RALES AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
- 7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: 3 STRANDS OF DOUBLE STRAND 12-1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- GATE LATCH: 1-3/6" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (XEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY CINCULAR).
- 10. LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
- 11. HEIGHT = 6' VERTICAL
- 12. ALL WORK SHALL CONFORM WITH THE PROJECT SPECIFICATIONS.

SITE WORK GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE REDICATED AS DRECTED BY CONTRACTOR, EXTREME OR TION UNCHERE, ASSUMD TO REMEMTING THE WORKING CREW, THIS WILL INCLUDE BUT NOT BE LIMITED TO A JFALL PROTECTION BY CONTRACTOR SPALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW, THIS WILL INCLUDE BUT NOT BE LIMITED TO A JFALL PROTECTION BY CONTRACTOR SPALE OL ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- 3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. ALL DISTING INACTIVE SEMER, WATER, GAS, ELECTRIC AND OTHER UTLITES, WHICH INTERFORE WITH THE ELECLIDION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWESE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL INTERS.
- 6. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- 8. THE STIE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANGMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANDERT.
- 1D. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABALIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 12. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDMENT CONTROL.

STRUCTURAL STEEL NOTES:

- 1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
- 2. ALL WELDING SHALL BE PERFORMED USING ETOXX ELECTRODES AND WELDING SHALL CONFORM TO ASC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER THAEL 32.4 IN THE ASC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE FOUCHED UN
- 3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4*6) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- 5. INSTALLATION OF CONCRETE DPANSION/MEDICA ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO PTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMEDIT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBOMED HOUSES IN CONCRETE SPECIAL INSPECTIONS, REQUIRED BY COVERNING CODES, SHALL BE PERFORMED IN ORDER TO MANTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LADOS.



10-150-0079

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES. 2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUCTS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- J. WIR WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- 4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- 5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA
- 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- 8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT ØREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- 9 ALL THE WRAPS SHALL BE CLIT FLUSH WITH APPROVED CLITTING TOOL TO REMOVE SHARP EDGES.
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (14 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM LISED, UNLESS OTHERWISE SPECIFIED.
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC POWER AND COMINGLIMINARS, NOT IN TOUMAS OF CONDUT, SMALL BE MULTI-CONDUCTOR, THY CABLE (1) + MAG OR LARGER, 600 V, OIL RESISTANT THAN OR THMM-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATOR, WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75'C (90'C IF AVAILABLE).
- 14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEWA, UL ANSI/IEEE, AND NEC.
- 15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR
- 16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), DR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- 17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE
- 18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDEROROUND; DIRECT BURED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- 20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- 21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEWA, UL, ANSI/IEEE, AND NEC.
- 22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEWA 1 (OR BETTER)
- 23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEWA 1 (OR BETTER) INDOORS OR NEWA 3R (OR BETTER) OUTDOORS
- 24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEWA OS 1; AND RATED NEWA 1 (OR BETTER) BETTER INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

- 25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEWA OS 2: AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 26. THE CONTRACTOR SHALL, NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 27 THE CONTRACTOR SHALL PROMOE NECESSARY TAGGING ON THE REFAKERS. CARLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLIDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TING OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE HER. 1.
- 2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH THE CONTINUE OF SMALL FUTURE LEE FALLOS FUTURE RESISTANCE TO DATA TESTING (PRE REEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUB-CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHEVE A TEST RESULT OF 5 OHNS OR LESS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE REG. SHALL BE FURNISHED AND INSTALLED WITH THE POWER 5. CIRCUITS TO BTS EQUIPMENT
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AND STRANDED COPPER OR LARGER FOR INDOOR BTS. 2 AND STRANDED COPPER TO ROTOOD BTS. 6.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED.BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED. 7.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE 8. GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- 9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 10. USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.
- 11. EXOTHERWIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- 13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- 14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- 15. APPROVED ANTIOXIDANT COATINGS (1.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL
- 17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- 19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE COMPUCTOR, SLOCH AS METALLIC CONDUITS, METAL SUPPORT CUPS OR SLEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC METAL SUPPORT PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVORABLE (E.G., NON-METALLIC CONDUIT FROMHETED BY LOCAL COOE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

ABBREVIATIONS (C) DUSTING (HT) HET (HT) (HT) HET (HT) (HT) (HT) (HT) (HT) (HT) (HT) (HT	A start with the second
ELECTRICAL SYMBOLS S/C SOLID CROUND BUS BAR S/N SOLID NEUTRAL BUS BAR B B SUPPLENEITAL CROUND CONDUCTOR C SUPPLENEITAL CROUND CONDUCTOR SINCLE-POLE THERMAL-MACHETIC C CROUIT BREAKER D DISCONNECT SWITCH WETER	COUNTRY SIDE COUNTRY SIDE CO

10-150-0079



































FIRST AMENDMENT TO OPTION AND LEASE AGREEMENT

THIS FIRST AMENDMENT TO OPTION AND LEASE AGREEMENT ("First Amendment") is entered into on the ______ day of ______, 2011, by and between Dale Damerau and wife, Robbin Damerau, ("Landlord") and AT&T Mobility Texas, LLC, a Delaware limited liability company ("Tenant").

WITNESSETH:

WHEREAS, Landlord and Tenant entered into an Option and Lease Agreement dated as of June 29, 2010 (the "Option and Lease Agreement");

WHEREAS, Landlord and Tenant desire to amend the original Option and Lease Agreement;

NOW, THEREFORE, in consideration of the Option and Lease Agreement and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Landlord and Tenant agree that the Option and Lease Agreement is hereby amended and appended to as follows:

1. Paragraph 1(a) is deleted in its entirety and replaced with the following:

"(a) Landlord grants to Tenant an option (the "**Option**") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above room/cabinet/ground space as described on attached **Exhibit 1**, as well as a 4,400 square foot Protected Vegetation Area ("PVA") as described on attached **Exhibit 1**. The PVA will be maintained by Tenant in accordance with Regulated Activities on the Edwards Aquifer Recharge & Transition Zones per the Texas Commission on Environmental Quality (TCEQ) and Best Management Practices (RG-348) and Optional Enhanced Measures for the Protection of Water Quality in the Edwards Aquifer: An Appendix to RG-348 (RG-348a). Unrestricted access for Tenant's uses from the nearest public right of way along the Property to the Premises is also described on the attached **Exhibit 1** (collectively, the "**Premises**").

2. Paragraph 4 (a) is deleted in its entirety and replaced with the following:

"(a) Commencing on the first day of the month following the date that Tenant commences construction (the "Rent Commencement Date"), Tenant will pay the Landlord a monthly rental payment of One Thousand and No/100 Dollars (\$1000.00) ("Rent"), at the address set forth above, on or before the fifth (5th) day of each calendar month in advance. In partial months occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within thirty (30) days after the Rent Commencement Date.

- 3. Landlord and Tenant desire to replace Exhibit 1 in its entirety and replace with Exhibit 1 attached hereto.
- 4. Landlord and Tenant represent and warrant to each other that as of the date of this execution, there are no uncured defaults under the terms of the Option and Lease Agreement and that the Option and Lease Agreement is in full force and effect.

- 5. All other terms of the Option and Lease Agreement except as may be amended herein, or as may be in conflict with the provisions of this First Amendment, shall be deemed incorporated into this First Amendment.
- 6. Except as amended herein, all terms, conditions, provisions, covenants and agreements contained in the Option and Lease Agreement are hereby ratified and confirmed in their entirety. The terms used herein and not otherwise defined in this First Amendment shall have the same meaning as set forth in the Option and Lease Agreement.

SIGNATURES TO FOLLOW

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day first above written.

LANDLORD:

ale Damerau

Date: 01-27-11

Robbin Damerau

STATE OF Jeves

COUNTY OF Comal Jammy Douch Before me, the undersigned, a Notary Public for the State, personally appeared Dale Damerau and Robbin Damerau, personally known to me (or proved

to me on the basis of satisfactory evidence) to be the persons whose name are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacity, and that by their signature on the instrument, the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official stamp or seal, this <u>27</u> day of <u>January</u>, 2011.



[AFFIX NOTARY SEAL]

Jammey Dougherty Notary Public

My commission expires: march 19,2011

TENANT:

New Cingular Wireless PCS, LLC, a Delaware corporation

By: AT&T Mobility Corporation, Its Manager By: Thompso) Name: Title: Date: STATE OF TEXAS)) ss: COUNTY OF HARRIS) Then, on the Zet day of <u>SADUARM</u>, 2011 personally appeared the <u>SHAWNDRIER 5 PHOMBON</u>, <u>ALCA MAN ALCL</u> of <u>ATOT</u> as aforesaid, signer and sealer of the foregoing instrument, and acknowledged the same to be of AT&T his/her free act and deed as MANALER and the free act and deed of said corporation, before me. Rose M Grant Notary Public Notary Public, State of Texas My Commission Expires: My Commission Expires: November 18, 2013

EXHIBIT 1

DESCRIPTION OF THE PREMISES Page 1 of 3

METES AND BOUNDS ACCESS & UTILITY EASEMENT 0.01 ACRES (500 SQUARE FEET) OUT OF A CALLED 76.069 ACRES VICENTE SALINAS SURVEY No. 393 COMAL COUNTY, TEXAS

Being 0.01 acres (500 square feet) of land, out of a called 76.069 acres, conveyed to Dale Damerau by deeds recorded under County Clerk's File Number (CCF) 200906044377 Official Public Records of Comal County, Texas (OPR CCT), said 0.01 acre tract lying in the Vicente Salinas Survey No. 393 and being more particularly described by metes and bounds as follows;

COMMENCING at a found 1/2 inch iron rod, marking the West corner of said 76.069 acres;

THENCE North 38'26'02" East, a distance of 1,071.14' feet (called 1,070.87') to a found 1/2 inch iron rod, marking an angle point of said 76.069 acres;

THENCE North 38"14'37" East, a distance of 645.69 feet to an angle point of said 76.069 acres;

THENCE North 38"07"14" East (called North 37"59"10" East), a distance of 567.37 feet (called 567.92') to a fence corner in the South right-of-way (ROW) of FM Highway 1863, ROW varies, marking the Northwest corner of said 76.069 acres;

THENCE South 89°12'56" East (called South 89°14'00" East), along said South ROW, a distance of 213.00 feet to a point for corner, marking the Northwest corner of a proposed Access & Utility Easement, also being the POINT OF BEGINNING;

THENCE South 89'12'56" East, along said ROW, a distance of 20.00 feet to a point for corner, marking the Northeast corner of the herein described tract;

THENCE South 00°47'04" West, a distance of 25.00 feet to a point for corner in the North line of a proposed Tower Site, also being the Southeast corner of the herein described tract;

THENCE North 89°12'56" West, along said North line, a distance of 20.00 feet to a point for corner, marking the Southwest corner of the herein described tract;

THENCE North 00'47'04" East, a distance of 25.00 feet to the POINT OF BEGINNING and containing a computed 0.01 acres (500 square feet) of land.

DESCRIPTION OF THE PREMISES Page 2 of 3

NETES AND BOUNDS TOWER SITE 0.23 ACRES (10,000 SQUARE FEET) OUT OF A CALLED 76.069 ACRES VICENTE SALINAS SURVEY No. 393 COMAL COUNTY, TEXAS nature and does affect the parent located at the time survey.

Being 0.23 acres (10,000 square feet) of land, out of a called 76.069 acres, conveyed to Dale Damerou by deeds recorded under County Clerk's File Number (CCF) 200506044377 Official Public Records of Comal County, Texas (OPR CCT), said 0.23 acre tract lying in the Vicente Salinas Survey No. 393 and being more particularly described by metes and bounds as follows:

COMMENCING at a found 1/2 inch iron rod, marking the West corner of said 76.069 acres;

THENCE North 38"25"02" East, a distance of 1,071.14" feet (called 1,070.87") to a found 1/2 inch iron rod, marking an angle point of said 76.069 acres;

THENCE North 3874'37" East, a distance of 645.69 feet to an angle point of sold 76.069 cores;

THENCE North 38°07'14" East (called North 37'59'10" Ecst), a distance of 567.37 feet (called 567.92') to a fence corner n the South right-of-way (ROW) of FM Highway 1863, ROW varies, marking the Northwest corner of saic 76.069 acres;

THENCE South 89"12'56" East (called South 89"14"00" East), along said South ROW, a distance of 213.00 feet to a point for corner, marking the Northwest corner of a proposed Access & utility Easement;

THENCE South 89'12'56" East, along sold ROW, a distance of 20.00 feet to a point for corner, marking the Northeast corner of sold Easement;

THENCE South GO'47'04" West, a distance of 25.00 feet to a point for corner, marking the Southeast corner of said Easement, also being in the North line of proposed Tower Site and the POINT OF BEGINNING;

THENCE South 8972'56" East, a distance of 40.00 feet to a set 5/8 inch iron rod with eas, marking the Northeast corner of the herein described tract;

THENCE South 00147'04" West, a distance of 100.00 feet to a set 5/8 inch iron rod with cap, marking the Southeast corner of the herein described fract;

THENCE North 8912'56" West, a distance of 100.00 feet to a set 5/8 inch iron red with cap, marking the Southwest corner of the herein described tract;

THENCE North 00'47'04" East, a distance of 100.00 feet to a set 5/8 inch iron rod with cap, marking the Northwest corner of the herein described tract;

THENCE South 8912'56" East, a distance of 60.00 feet to the POINT OF BEGINNING and containing a computed 0.23 acres, (10,000 square feet) of land.

DESCRIPTION OF THE PREMISES Page 3 of 3

METES AND BOUNDS PROTECTED VEGETATION AREA 0.10 ACRES (4,400 SQUARE FEET) OUT OF A CALLED 76.069 ACRES VICENTE SALINAS SURVEY No. 393 COMAL COUNTY, TEXAS

Being 0.10 acres (4,400 square feet) of land, out of a called 75.069 acres, conveyed to Dale Damerau by deeds recorded under County Oerk's File Number (CCF) 200906044377 Official Public Records of Comal County, Texas (OPR CCT), said 0.10 acre tract lying in the Vicente Salinas Survey No. 393 and being more particularly described by metes and bounds as follows;

COMMENCING at a found 1/2 Inch Iron rod, marking the West corner of sold 76.069 acres;

THENCE North 38 '26'02' East, a distance of 1,071.14' feet (called 1,070.87') to a found 1/2 inch iron rad, marking an angle point of said 76.069 acres;

THENCE North 38 '14'37' Ecst, a distance of 645.69 feet to an angle point of sold 76.069 acres;

THENCE North 38 '07'14' East (called North 37 '59'10' East), a distance of 567.37 feet (called 567.92') to a fence corner in the South right—of—way (ROW) of FM Highway 1863, ROW varies, marking the Northwest corner of said 76.069 acres;

THENCE South 89 '12'56' East (called South 89 '14'00' East), along said South ROW, a distance of 213.00 feet to a point for corner, marking the Northwest corner of a proposed Access & Utility Easement;

THENCE South 00°47'04" West, a distance of 25.00 feet to a point in the North line of a proposed Tower Site:

THENCE North 89"12'56" West, along sold North line, a distance of 40.00 feet to a set 5/8 inch iron rad with cap, marking the Northwest corner of sold Tower Site, also being the most Westerly Northeast corner of a proposed Protected Vegetation Area and the POINT OF BEGINNING;

THENCE South 00'47'04" West, along the West line of said Tower Site, a distance of 100.00 keet to a set 5/8 inch iron rod with cap, marking the Southwest corner of said Tower Site, also being an internal corner of the herein described tract;

THENCE South 89'12'56" East, along the South line of said Tower Site, a distance of 100.00 feet to a set 5/8 inch iron rod with cap, marking the Southeast corner of said Tower Site, also being the most Southeasterly Northeast corner of the herein described tract;

THENCE South 00'47'04" West, a distance of 20.00 feet to a point for corner, marking the Southeast corner of the herein described tract;

THENCE North 89°12'56' West, a distance of 120.00 feet to a point for corner, marking the Southwest corner of the herein described tract;

THENCE North 00°47'04" East, a distance of 120.00 feet to a point for corner, marking the Northwest corner of the herein described tract;

THENCE South 89"12'56" East, a distance of 20.00 feet to the POINT OF BECINNING and containing a computed 0.10 acres (4,400 square feet) of land.

Geologic Assessment

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

REGULATED ENTITY NAME: Countryside Tow	ver Site (Site No. SX 3239)
TYPE OF PROJECT: X WPAPAST	SCSUST
LOCATION OF PROJECT: X Recharge Zone	Transition Zone Contributing Zone within the Transition Zone
PROJECT INFORMATION	

- 1. <u>X</u> Geologic or manmade features are described and evaluated using the attached **GEOLOGIC ASSESSMENT TABLE**.
- 2. 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.

Soil Units, Infiltration Characteristics & Thickness							
Soil Name	Group*	Thickness (feet)					
Very cherty clay loam	С	0 to 10 in.					
Very cherty clay	С	10 to 14 in.					
Extremely stony soil	С	14 to 28 in.					
Del Rio Clay	D	28 to 36 in.					

* Soil (Abbreviat	Group ed)	Definitions		
A. Soils hav		infiltration rate		
B. Soils having a <u>moderate infiltration</u> rate when thoroughly wetted.				
C. Soils have when thorough		infiltration rate		
D. Soils hav rate when the		slow infiltration etted.		

- 3. <u>X</u> A **STRATIGRAPHIC COLUMN** is attached at the end of this form that shows formations, members, and thicknesses. The outcropping unit should be at the top of the stratigraphic column.
- 4. X A NARRATIVE DESCRIPTION OF SITE SPECIFIC GEOLOGY is attached at the end of this form. The description must include a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure, and karst characteristics of the site.
- 5. <u>X</u> Appropriate **SITE GEOLOGIC MAP(S)** are attached:

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

6. Method of collecting positional data:

- X Global Positioning System (GPS) technology.
 - Other method(s).
- 7. \underline{X} The project site is shown and labeled on the Site Geologic Map.
- 8. <u>X</u> Surface geologic units are shown and labeled on the Site Geologic Map.
- 9. ____ 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.
 - <u>X</u> Geologic or manmade features were not discovered on the project site during the field investigation.
- 10. <u>X</u> The Recharge Zone boundary is shown and labeled, if appropriate.
- 11. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.):
 - ____ There are ____(#) 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 Chapter 76.
 - X There are no wells or test holes of any kind known to exist on the project site.

ADMINISTRATIVE INFORMATION

12. X 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.

Date(s) Geologic Assessment was performed: November 5, 2010

Date(s)

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 geolegist as defined by 30 TAC Chapter 213.

Douglas McG	ookey, PG	210 694-4545
Print Name of	Geologist	Telephone
	B Geologist	210 694-4577
\frown	License Number 38	Fax
PM	Miza STORAL STORAL	November 17, 2010
Signature of G	eologist	Date
Representing:	Medina Consulting Company, Inc.	
. 0	(Name of Company)	

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

	EOLOGIC ASSESSMENT TABLE PROJECT NAME: Big Geronimo Tower Site, Site No. SX3242																			
L	OCATIC	DN				FEATURE CHARACTERISTICS								EVALUATION			PHY	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		NSIONS (I		TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL		אזועוזא	(ACI	ENT AREA RES)	TOPOGRAPHY
						x	Y	z		10						<40	<u>>40</u>	<1.6	<u>>1.6</u>	
None																				
															-		-			
																	<u> </u>			
										<u> </u>										
														i						
· · · · · · · · · · · · · · · · · · ·																				
				and Antonia and																
										<u> </u>							<u> </u>			
	14/0004																			
2A TYPE	WGS84	TYPE	-		B POINTS							INFILLIN	~							
C	Cave	TIPE		2	30 B		N	None	exposed b	odrov			G							
					20		С					and area	. ol							
SC	Solution ca								e - cobbles					deals a fear						
	Solution-ei Fault	nlarged fract	ure(s)		20 20		O F				_			, dark colors	Nom					
0		ral bedrock	faaturas		20		v		ation. Give	-				gray or red co	JIOIS					
100000		feature in be			30		FS		tone, ceme				mpaon							
	Swallow ho				30		x		materials											
	Sinkhole				20															
CD	Non-karst	closed depre	ession		5					12 T	OPOGR	APHY								
z	Zone, clus	tered or aligi	ned feature	es	30		Cliff,	Hilltop,	Hillside, D	raina	ge, Flood	plain, Stre	eambed							
			I have rea	ad, lunde										ty's Instructio						
			informatio	on presen	ted here co	mplies	WHEN	at doci	ument and	is a tr	ue repres	sentation	of the co	nditions obse	rved in th	ne field	•			
			My signal		ies that I an	quali	ied as	a geole	gist de del	ined t	by 30 TA	C Chapter								
			-	N	14th	Doug	las A.	McGo	OKEY	Y				Date Nove	mber 5	5, 201	0			
					10					7										
					PRO	LI	cense h	logist	300	1-1	-4			Sheet 1	of	1	_			
					1	63	LICI	ac'	15%											
TCEQ-0	585-Tab	le (Rev. 1	0-01-04)			120	DNAL	XC	SE T											
						11	110													

GEOLOGIC ASSESSMENT

Site Name:Proposed Countryside Tower Site (Site No. SX 3239)Address:11844 Farm to Market Road 1863, New Braunfels, Texas 78132Location:South side of Farm to Market Road 1863 approximately 1,250 feet eastof the intersection of Schoenthal Road North and Farm to Market Road1863 in Comal County, Texas

Soil Description:

The following soils descriptions are taken from the *Soil Survey of Comal and Hays Counties*, US Department of Agriculture, Soil Conservation Service, 1984). The proposed tower Site is on Rumple-Comfort association, undulating. The soil is described below.

Rumple-Comfort association, undulating (RUD in the *Soil Survey of Comal and Hays Counties*). This association consists of shallow and moderately deep soils on uplands in the Edwards Plateau. Slopes are plane or convex and range from 1 to 8 percent. The areas are irregular in shape and range from 50 to several thousand acres in size.

Rumple soils makes up about 60 percent of the association, Comfort soil makes up 20 percent, and other soils, mainly Tarplay soils, makes up 20 percent. The Rumple soil is on broad ridgetops and side slopes. It is mainly gently sloping. The Comfort soil is mainly in the more sloping areas near drainageways and near outcrops of rocks. In places, there are narrow ledges of limestone.

Typically, the surface layer of the Rumple soil is dark reddish brown very cherty clay loam about 10 inches thick. Rounded chert and limestone cobbles and gravel cover about 20 percent of the surface. The subsoil to depth of 14 inches is dark reddish brown very cherty clay, and to a depth of 28 inches it is dark reddish brown extremely stony clay that is about 75 percent, by volume, limestone fragments. The underlying material is indurated fractured limestone. The soil is mildly alkaline and noncalcareous throughout. The texture of the surface layer ranges to very cherty loam and cherty clay.

Typically, the surface layer of the Comfort soil is dark brown, neutral, extremely stony clay about 7 inches thick. The subsoil to a depth of 12 inches is dark reddish brown, mildly alkaline, extremely stony clay. The underlying material is undurated fractured limestone. The soil is noncalcareous throughout.

The soils in this association are well drained. Surface runoff is medium. However, runoff from large areas is much slower than from local areas because some of the streambeds. Permeability is moderately slow in the Rumple soil and slow in the Comfort

soil. The available water capacity is very low. The rooting zone is shallow in Comfort soil and moderately deep in Rumple soil. Water erosion is a moderate hazard.

Surface to 10 inches	Very cherty clay loam: Dark reddish brown, moist, moderate fine subangular blockly structure, hard, friable, common fine roots, about 35 percent, by volume, angular chert fragments mostly 0.5 to 1 inch across, noncalcareous, mildly alkaline, clear smooth boundary.
10 to 14 inches	Very cherty clay: Dark reddish brown, moist, moderate very fine subangular blocky structure, hard, friable, common fine roots, patchy clay films on peds, about 35 percent by volume angular chert fragments mostly 0.5 to 1 inch across, noncalcareous, mildly alkaline, abrupt irregular boundary.
14 to 28 inches	Extremely stony clay: Dark reddish brown, moist, few fine roots, about 25 percent by volume cherty soil material in vertical and horizontal fractures and solution cavities; 75 percent limestone cobbles and stones and chert pebbles and cobbles; noncalcareous; mildly alkaline, abrupt wavy boundary.
28 to 36 inches	Del Rio Clay: Blue-green to yellow brown gypsiferous clay

Table 1.Rumple Series Soil Profile

After Soil Survey of Comal and Hays Counties.

Mapped Geology Description:

The Site lies on Del Rio Clay (Upper Cretaceous), which is the primary upper confining unit of the Edwards aquifer. It is described as a blue-green to yellow-brown, variably gypsiferous clay containing iron nodules, abundant pectin-type fossil clams, and the fossil oyster *Ilymatogyra arietina*. Minor, thin lenticular beds of highly calcareous siltstone may also occur. Unweathered Del Rio Clay is composed of kaolinite, illite, and lesser amounts of montmorillonite. Secondary gypsum occurs as fracture fillings in clay-rich exposures near igneous bodies. The Del Rio has no recognized cavern development and no significant porosity or permeability. The Del Rio directly overlies the Lower Cretaceous formation in many areas. The thickness of the formation is about 40 to 110 feet (Description from *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas*, Blone and others, 2005).

Narrative of Site Specific Geology:

The attached figures show both geology of the area from the *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas*, Blone and others, 2005 as well as site-specific geology. The Site is mapped within the outcrop area of the Del Rio Clay, which overlies the Edwards aquifer. The Del Rio Clay in the San Marcos Platform overlies the Georgetown Formation and the Edwards Group, and is an upper confining unit for the Edwards aquifer. No outcrops of the Del Rio Clay were observed on the Site.

The Del Rio Clay is a confining unit for the Edwards aquifer, and the gypsiferous clay and calcareous siltstone that make up most of the Del Rio Clay has no significant porosity or permeability. The overlying soil that is likely mostly composed of Rumple soil is also relatively impermeable, and fine clay fills fractures and crevices in the shallow subsurface that might otherwise allow infiltration. Therefore, there is no recharge to the Edwards aquifer over the Site.

Throughout the Site, the ground surface is covered with grass, brush, and trees. The surface is covered by clay and chert fragments. No karst features were observed, and no evidence of faults or fractures could be identified through the heavy vegetation. No faults were mapped on the *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas*, Blone and others, 2005.

The only area in which soil will be excavated is the tower compound, where a fence, tower foundation, and foundation for an equipment building will be installed. In this area, the ground is covered with small limestone rocks and stony clay loam soil. No features were identified on the Site including the proposed tower compound and proposed access road. Although the surface soil will not be disturbed, the area designated for vegetative strips was also observed. No features were observed in the area designated for vegetative filter strips. The following photographs show the site, and the photograph locations are shown on the *Site Specific Geology* figure.
Photographs:



Photograph 1. View to the southwest from the easement on the south side of Farm to Market Road 1863 showing the fence west of the Site.



Photograph 2: View to the south from Farm to Market Road 1863 showing the fence along the easement, the future access road, and beyond it the Site. There is heavy vegetation consisting of grass, brush, and trees on the Site.



Photograph 3. View to the south from the proposed access road at the ground surface on the Site and access road.



Photograph 4: View to the southwest from the northwest corner of the proposed tower compound.



Photograph 5. View to the north from the northeast corner of the proposed Site.



Photograph 6: View to the southwest from near the center of the Site.



Photograph 7. View to the southeast from near the center of the Site.



Photograph 8: View to the northwest from near the center of the Site.



Photograph 9. View to the northeast from near the southeast corner of the proposed Site.



Photograph 10: View to the west from near the eastern side of the proposed Site.

Geologic Column:

The Site lies in an area mapped as Del Rio Clay, which is one of the upper confining units of the Edwards aquifer (Table 2; Source: *Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas*: US Geological Survey, Water Resource Investigations Report 95-4030.

	Hydrologic subdivision		Group/ Formation/ Member	Thickness (ft)	Lithology	Field Identification	Cavern Development	Porosity/Permeability Type
			,		Erosional Surf	ace		
Upper Cretac	Upper Confining Units		Del Rio Clay	40-50	Blue-green to yellow brown clay	Fossiliferous; Ilymatogyra arietina	None	None Upper Confining Unit
Lower Cretaceous	Edwards Aquifer	Georgetown Formation		2-20	Reddish-brown, gray to light tan marly limestone	Marker Fossil; Waconella wacoensis	None	Low Porosity/ Low Permeability
		Person Formation	Cyclic and marine members, undivided	80-90	Mudstone to packstone; miliolid grainstone, chert	Thin graded cycles; massive beds to relatively thin beds, crossbeds	Many subsurface, might be associated wth earlier karst development	Laterally extensive, both fabric and not fabric water-yielding
			Leached and collapsed members, undivided	70-90	Crystalline limestone, mudstone to grainstone; chert; collapsed breccia	Bioturbated non- stained beds separated by massive limestone beds; stromatolitic limestone	Extensive lateral development; large rooms	Most not fabric/one of the most permeable
			Regional dense member	20-24	Dense, argillaceous mudstone	Wispy iron- oxide stains	Very few; only vertical fracture enlargement	Not fabric/low permeability; vertical barrier
		Kainer Formation	Grainstone member	50-60	Miliolid grainstone; mudstone to wackestone; chert	White crossbedded grainstone	Few	Not fabric; recrystallization reduces permeability
			Kirschberg evaporate member	50-60	Highly altered crystalline limestone; chalky mudstone, chert	Boxwork voids, with neospar and travertine frame	Probably extensive cave development	Most fabric/ one of the most permeable
			Dolomitic Member	100-130	Mudstone to grainstone, crystalline limestone, chert	Massively bedded, light gray, <i>Toucasia</i> abundant	Caves related to structure or bedding planes	Mostly non fabric, some bedding plane-fabric water-yielding
			Basal Nodular Member	50-60	Shaly, nodular limestone, mudstone, and <i>miliolid</i> grainstone	Massive, nodular and mottled, <i>Exogyra texana</i>	Large lateral caves at surface, a few caves near Cibolo Creek	Fabric stratigraphically controlled/large conduit flow at surface, no permeability in subsurface
	Lower Confining Unit	Upper Member of the Glen Rose Limestone		350-500	Yellowish tan, thinly bedded limestone and marl	Stairstep topography, alternating limestore and pate OF 7	Some surface cave development	Some water production at evaporate beds/relatively impermeable

Table 2. Geologic Column

Countryside Tower Site (Site No. SX 3239) Geology

Douglas A. McGookey Geologist License Number 359

ONAL

Page 9







Water Pollution Abatement Plan Application

for Regulated Activities

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

REGULATED ENTITY INFORMATION

- 1. The type of project is:
 - ____ Residential: # of Lots:
 - Residential: # of Living Unit Equivalents:
 - Commercial
 - ____ Industrial X Other: T

Other: <u>Tower Construction Site</u>

2. Total site acreage (size of property): 0.34 acre

3. Projected population: <u>0</u>

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

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres		
Structures/Rooftops	280.00	÷ 43,560 =	0.0064		
Parking	0	÷ 43,560 =	0		
Other paved surfaces	1140.00	÷ 43,560 =	0.0262		
Total Impervious Cover	1420.00	÷ 43,560 =	0.0326		
Total Impervious Cover + Total Acr	otal Impervious Cover + Total Acreage x 100 =				

- 5. <u>X</u> ATTACHMENT A Factors Affecting Water Quality. A description of any factors that could affect surface water and groundwater quality is provided at the end of this form.
- 6. <u>X</u> 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.

- 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.
- 8. Type of pavement or road surface to be used:
 - ___ Concrete
 - Asphaltic concrete pavement
 - ___ Other: __

TCEQ-0584 (Rev. 10-01-10)

- 9. Length of Right of Way (R.O.W.): ______ feet. Width of R.O.W.: ______ feet. L x W = ______ Ft² ÷ 43,560 Ft²/Acre = ______ acres.
 10. Length of pavement area: ______ feet. Width of pavement area: ______ feet. L x W = ______ Ft² ÷ 43,560 Ft²/Acre = ______ feet. Pavement area _____ acres ÷ R.O.W. area _____ acres x 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. X ATTACHMENT B - Volume and Character of Stormwater. A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is provided at the end of this form. The estimates of stormwater runoff quality and quantity should be based on 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:

0% Domestic	0	gallons/day
0 % Industrial	0	gallons/day
0 % Commingled	0	gallons/day

TOTAL 0 gallons/day

- 15. Wastewater will be disposed of by:
 - N/A **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. The appropriate licensing authority's (authorized agent) written approval is provided at the end of this form. It states that the land is suitable for the use of an on-site sewage facility or identifies areas that are not suitable.
 - 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.

<u>N/A</u> 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.

- ____ existing.
- ____ proposed.
- 16. <u>N/A</u> All private service laterals will be inspected as required in 30 TAC §213.5.

SITE PLAN REQUIREMENTS

Items 17 through 27 must be included on the Site Plan.

- 17. The Site Plan must have a minimum scale of 1" = 400'. Site Plan Scale: 1" = 100'.
- 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.
 - X 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 #48091C0430F, revised September 2, 2009

- 19. ____ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
 - <u>X</u> The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
- 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
 - X There are 0 (#) 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.
 - X 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.
 - X No **sensitive** geologic or manmade features were identified in the Geologic Assessment.
 - ____ ATTACHMENT D Exception to the Required Geologic Assessment. An exception to the Geologic Assessment requirement is requested and explained at the end of this form.
- 22. <u>N/A</u> The drainage patterns and approximate slopes anticipated after major grading activities.

23. X Areas of soil disturbance and areas which will not be disturbed.

- Locations of major structural and nonstructural controls. These are the temporary and 24. _X_ permanent best management practices.
- Locations where soil stabilization practices are expected to occur. 25. X
- 26. N/A Surface waters (including wetlands).
- 27. Locations where stormwater discharges to surface water or sensitive features.
 - There will be no discharges to surface water or sensitive features. Х

ADMINISTRATIVE INFORMATION

- 28. Submit one (1) original and one (1) copy of the application, plus additional copies as Х 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.
- 29. Any modification of this WPAP will require Executive Director approval, prior to X construction, and may require submission of a revised application, with appropriate fees.

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 Aguifer. This WATER POLLUTION ABATEMENT PLAN APPLICATION FORM is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

2-1-11

Print Name of Customer/Agent

Signature of Customer/Agent

Date

CHAPMAN I

Attachment A

FACTORS AFFECTING WATER QUALITY

Factors that could affect surface water and ground water quality are:

- 1) Fine particles produced during grading and construction activities.
- 2) Fluids released from construction equipment.

Attachment B

VOLUME AND CHARACTER OF STORMWATER

Storm water passing through the construction activity will be filtered by a combination of silt fences, rock berms and vegetative filter strips before entering existing drainage pathways, in order to maintain storm-water quality at substantially pre-construction levels. Storm-water impact will also be minimized by performing construction activities during the dry winter months.

The tower construction area and access easement are located on generally flat, grassland with small trees, brush, small limestone rocks and stony clay loam soil. During construction, any necessary clearing of trees and brush will be done using techniques that result in minimal soil disturbance. Any disturbed soil, such as that "dislocated" as part of a root ball when it is removed from the ground, must be tamped gently back in place so that vegetation roots suffer as little long-term damage as possible. Grubbing out of mesquite trees will be followed by mowing of native grasses in order to spread seed and accelerate vegetative growth. All construction will be performed with temporary storm-water controls in place on the downslope sides of all disturbed ground.

A tower with anchor supports and one small building will be constructed, and then a 15-foot-wide vegetative filter strip with supporting soils will be improved along the downslope perimeter of the tower site. Compacted gravel will be used for the 12-foot wide driveway into the tower site. The remaining surface cover of the property will be native vegetation.

The pre-construction run-off coefficient is estimated to be in the range of 0.30 to 0.44, whereas the post-construction run-off coefficient for the entire site will fall into the range of 0.36 to 0.50.

The vegetative filter strips in the tower construction area and along the access easement should assure that water quality downslope of the filter strips is maintained at or near pre-construction levels.



Attachment C

SUITABILITY LETTER FROM AUTHORIZED AGENT

Not applicable. The site activities do not generate any wastewater requiring disposal.

Attachment D

EXCEPTION to the REQUIRED GEOLOGIC ASSESSMENT

Not applicable. The Geologic Assessment has been included in this report.



Temporary Stormwater Section

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

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:
 - ____ Aboveground storage tanks with a cumulative storage capacity of less that 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.
 - X Fuels and hazardous substances will not be stored on-site.
- 2. <u>X</u> ATTACHMENT A Spill Response Actions. A description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is provided at the end of this form.
- 3. <u>X</u> 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. <u>X</u> ATTACHMENT B Potential Sources of Contamination. Describe in an attachment at the end of this form any other activities or processes which may be a potential source of contamination.
 - ____ There are no other potential sources of contamination.

SEQUENCE OF CONSTRUCTION

- 5. <u>X</u> 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 provided at the end of this form. For each activity described, an estimate of the total area of the site to be disturbed by each activity is given.
- 6. <u>X</u> 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: <u>Dry Comal Creek</u>

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.**

TCEQ-0602 (Rev. 10/01/04)

- 7. <u>X</u> ATTACHMENT D Temporary Best Management Practices and Measures. A description of the TBMPs and measures that will be used during and after construction are provided at the end of this form. For each activity listed in the sequence of construction, include appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
 - X 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 has been provided in the attachment at the end of this form
 - a. A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates up-gradient from the site and flows across the site.
 - b. 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.
 - c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - d. 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 provided at the end of this form. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 X There will be no temporary sealing of naturally-occurring sensitive features on the site.
- 9. <u>X</u> ATTACHMENT F Structural Practices. Describe 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. Placement of structural practices in floodplains has been avoided.
- 10. <u>X</u> ATTACHMENT G Drainage Area Map. A drainage area map is provided at the end of this form to support the following requirements.
 - ____ 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.
 - X 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.

- 11. <u>X</u> 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 has 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 provided as at the end of this form.
- 12. <u>X</u> **ATTACHMENT I Inspection and Maintenance for BMPs.** A plan for the inspection of temporary BMPs and measures and for their timely maintenance, repairs, and, if necessary, retrofit is provided at the end of this form. A description of documentation procedures and recordkeeping practices is included in the plan.
- 13. <u>X</u> 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. <u>X</u> 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. <u>X</u> 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. <u>X</u> 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).

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. <u>X</u> 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 at the end of this form.
- 18. <u>X</u> 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. <u>X</u> Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

ADMINISTRATIVE INFORMATION

20. X All structural controls will be inspected and maintained according to the submitted and

approved operation and maintenance plan for the project.

- 21. X 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 aguifer from any adverse impacts.
- 22. X 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.

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:

Douglas Mc Gookey

Print Name of Customer/Agent

Donuc

Signature of Customer/Agent

2-1-1/

Date



Attachment A

SPILL RESPONSE ACTIONS

*Please note that a release of more than 25 gallons of petroleum products requires immediate reporting to TCEQ (San Antonio 210/490-3096)

- 1) In case of any discharge discovery, on-site personnel will begin work to stop the discharge, place barriers to movement of the discharge along the drainage path, clean up the discharged material and notify the proper authorities. General response procedures are listed below.
- 2) Recovered materials may include fuel, absorbents containing fuel, soils and pavements contaminated by fuel, and water contaminated by fuel. All materials will be handled as hazardous material and stored within proper containment (for instance, liquids placed in drums; soils or other solids placed on heavy plastic sheeting and wrapped to avoid significant vapor loss or stormwater mixing). Once the materials have been sampled or otherwise screened, they may be disposed of to fuel recyclers, qualified landfills, or possibly treated on site to levels below regulatory limits. Consultation with a qualified environmental services company is strongly recommended.

In the event of a spill or other product release to the environment at the site, the following general procedures are to be followed as applicable:

- 1. STOP the source of spill or other release as fast as possible, by the most safe and practical means available;
- 2. IF IT IS SAFE TO DO SO, CONTAIN AND CLEAN UP the product released to prevent further spreading and additional environmental contamination. Containment will be performed with materials from the spill response kit available on site, or with dirt diking, or by any other practical means available;
- **3.** CONTACT company officials immediately with a description of the type and nature of release. If there is a potential for the release to leave the site property or pose an environmental hazard, contact the local fire department and the emergency response center;
- 4. SECURE the area around the release. Cordon off the area deemed unsafe due to spillage and fumes. Establish a safe area, based on wind direction and other factors, where employees can stage without exposure to spillage and fumes. Minimize flame and spark hazards. Mobilize all available manpower and equipment necessary to respond to the release, to contain and clean up the release in accordance with federal, state and local regulatory agencies' requirements;
- 5. All contaminated materials generated during the containment process and/or clean-up activities shall be recovered, stored, hauled and disposed of in accordance with federal, state and local regulatory agencies' requirements. For further disposal information and planning for proper disposal, contact Company's environmental contractor(s) or other approved vendors;

- 6. Company officials shall notify TCEQ and other applicable regulatory agencies within 24 hours of the release event's discovery if more than 25 gallons of petroleum product was released;
- 7. All required reports should be filed with appropriate agencies within applicable time frames after the release event's discovery;
- 8. Immediate action will be taken by company officials and/or employees to correct the cause of the release and to prevent the possibility of a reoccurrence;
- **9.** If fire is involved that is, a release leads to ignition of product the fire will be allowed to burn until all released, flammable product has been burned as completely as possible. Flooding with excessive amounts of water to fight the fire may result in more environmental damage than the fire itself. Water flooding may cause contamination of a wider area, increasing the environmental risk as well as the total cost of cleanup;
- 10. A product release may threaten human life, through potential for fire, explosion and inhalation of fumes or suffocation. If you cannot safely contain and clean up the release, CLEAR THE AREA AND TAKE PROPER SAFETY MEASURES. Environmental damage from a product release is bad, but injury or loss of human life is worse.

Emergency Response List

Agency Name	Emergency Phone Number
Local Fire Department	911
US EPA, Region VI, Dallas Texas Commission on Environmental	214/665-2253 214/665-6489
Quality (TCEQ), Region 13, San Antonio	210/490-3096
American Tower Corporation	210/387-5725

Attachment B

POTENTIAL SOURCES OF CONTAMINATION

Other activities or processes which may be a potential source of contamination are fluids that may leak or be released from the construction equipment.

A critical facet of construction equipment use is the fueling, lubrication and other maintenance of equipment while it is on site. Extra care must be taken by fuelers, oilers and mechanics during this work to avoid spillage or other release of fuels, lubricants, etc.



Attachment C

SEQUENCE OF MAJOR ACTIVITIES

The major activities which will disturb soils at the site during construction include the following:

- Clearing and grubbing of vegetation within the access easement and tower location where necessary (less than 0.24 acre);
- Installation of temporary BMPs (less than 0.02 acre);
- Excavation, filling and grading for structure foundations and driveway (less than 0.04 acre);
- Trenching, installation of utilities, filling and re-vegetation along trench (less than 0.01 acre);
- Installation or improvement of permanent BMPs (less than 0.11 acre);
- Removal of temporary BMPs (less than 0.02 acre).

Clearing and grubbing of some vegetation is necessary on this project, but the work must be limited to the careful removal of trees and shrubs. Root balls should be removed with the trees and shrubs whenever possible. All reasonable effort should be made to remove soil from the root ball, retaining that soil to be gently repacked in the depression opened by root ball removal. Disturbance of soils and grasses should be kept to the minimum possible extent, so that native grass cover and root zone continue to hold soils in place during rainfall events.



Attachment D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

A combination of silt fences, rock berms and a rock-bedded construction entrance/exit will be used in locations shown on the following Temporary BMPs Plan map. The location of the rock berm may be modified based on field conditions observed during construction. The temporary BMPs will be installed on the downslope side of the construction area and the driveway. The silt fences and rock berms will filter out particles mobilized by storm water from the construction site before leaving the property. A construction entrance/exit will be installed for the arresting of soil and mud gathered by vehicles traversing through the construction area. All temporary BMPs will be constructed as described on the attached detail drawings. There are no sensitive geologic features or surface water features located on the property. All temporary BMPs will be installed as the site is cleared, and then removed once the construction has been completed and the soil disturbance is sufficiently stabilized, or when permanent controls are implemented. Below is a list of general notes pertaining to each type of temporary BMP utilized for this site.

<u>Silt Fences</u> are used to intercept sediment while allowing stormwater to percolate through the fence. These fences are not utilized in areas of concentrated flow. Fence posts should be installed with a slight angle towards the uphill side of the fence. Posts shall be at least one foot into the ground and spaced no more than eight feet apart. The silt fence fabric is to be buried on the toe of the uphill side of the fence to a depth of at least eight inches and backfilled with compacted material.

<u>Rock Berms</u> are used in areas with concentrated flow to intercept sediment while allowing stormwater to percolate through the berm. Small, three- to five-inch diameter rock is enclosed within a woven wire mesh to ensure rock berm stability during incidents of large stormwater flow. In areas of low-flow volume, the wire mesh may be omitted. The berm is constructed perpendicular to the anticipated flow of stormwater and is most effective when placed within a three- to four-inch trench with the ends meeting the existing grade.

A <u>Rock-Bedded Construction Entrance/Exit</u> is utilized to provide a stable entrance/exit for construction vehicles and to limit or eliminate tracking or flow of sediment onto public roadways. Geotextile fabric will line the bottom of the entrance/exit with at least eight inches of compacted, four-to eight-inch diameter stone weighing down the fabric. If the slope towards the road exceeds 2%, then a ridge will need to be constructed (as shown in detail drawing) to divert stormwater flow.



Temporary Stormwater Section Attachments







ISOMETRIC PLAN VIEW

N.T.S.



Page 11 of 19



PROFILE



PLAN VIEW

Rock-Bedded Construction Entrance/Exit





Date Revised: 1/19/2011 Revised By: Amanda Watson Checked By: Cal Chapman Countryside Tower Site No. SX 3239 11844 FM 1863 Comal County, TX

Temporary BMPs

Attachment E

REQUEST TO TEMPORARILY SEAL A FEATURE

Not applicable. No temporary sealing of naturally occurring sensitive features will occur at the site.

Attachment F

STRUCTURAL PRACTICES

Runoff and the discharge of pollutants from exposed areas of the site will be limited by the following structural control practices:

- Silt fences;
- Rock berms;
- Rock bedding at construction entrance/exit.

These storm-water pollution control features will slow the velocity of runoff and enhance on-site sedimentation and capture of contaminants that may accumulate in storm water runoff exiting this development.

OTHER CONTROLS

Additional erosion, sediment, and pollution control practices include the following:

- Excavation material shall be placed on the uphill side of the trench when possible and/or applicable;
- Loaded haul trucks will be covered with tarpaulins;
- Any excess dirt tracked off-site shall be removed from roads daily;
- Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters.



Attachment G

DRAINAGE AREA MAP

Less than ten acres will be disturbed for this project. The entire site is part of a 3.0-acre drainage area that outfalls into unnamed tributaries of Dry Comal Creek. On-property temporary sediment controls for the drainage area are indicated on the map included in Attachment D.

Attachment H

TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

No temporary sediment ponds or basins will be constructed at this site. Temporary BMPs for the site include: silt fence; rock berm, and a construction entrance/exit. Design plans for the temporary BMPs are included in Attachment D.

Attachment I

INSPECTION AND MAINTENANCE FOR BMPS

An inspection will be performed by a qualified inspector every 14 days and/or within 24 hours of every one-half inch or more of rain (as recorded on a non-freezing rain gauge to be provided and installed by the contractor at the project site). As an alternative, one inspection will be made every seven days, regardless of rainfall events. An inspection and maintenance report will be completed in writing for each inspection. Based on the inspection results, the controls shall be revised per the inspection report. If repairs are necessary, they shall be initiated within 24 hours of the report.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

If modifications or additional temporary BMPs are necessary, changes must be implemented before the next storm event or as soon as practicable.

Every inspection report must be kept with the WPAP.

Inspection Criteria for erosion and sediment controls are as follows:

- The site preparation and construction-stage erosion and sediment controls are designed to retain sediment on site to the extent practical;
- All control measures must be properly installed and maintained in accordance with manufacturer's specifications and with project specifications;
- If sediment escapes the construction site, off-site accumulations of sediment must be removed immediately;
- Sediment must be removed from sediment traps when design capacity has been reduced by 50%;
- Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm-water discharges;
- The construction entrance shall be maintained in a condition which will prevent/minimize tracking or flowing of sediments onto public roadways. Sediments spilled, dropped, washed or tracked onto public roadway must be removed immediately;
- Silt fences must be maintained to insure the following:
 - Torn fabric is replaced and loose fabric is properly secured;
 - Loose post supports are plumbed and strengthened;
 - Fabric bottom is buried as anchor for the silt fence face;
- Rock berms shall be cleaned by lifting, dropping and reshaping the stones as required. They should be maintained to insure positive drainage, and so that breaks are promptly repaired
 - Rock-bedded construction entrance/exit shall be maintained to insure the following:
 - Sediment does not wash or track onto public road;
 - Foundation is stable but not too compacted, or too silted to hinder effectiveness.



Temporary Stormwater Section Attachments
Inspection Record

Pollution Prevention Measure	Condition	Comments/Description
General	· · · · ·	
Revegetation		
Silt fences (torn, secured, silt buildup)		
Rock berms (silt buildup, draining, intact)		
Vehicle exits (silt buildup, compacted)		
Material areas		
Equipment areas		
Concrete rinse		
Construction debris		
Dumpsters		
Infrastructure		
Roadway clearing		
Utility clearing		
Roadway grading		
Utility construction		
Drainage construction		
Roadway base		
Site cleanups		
Building		
Clearing for building		
Foundation grading		
Utility construction		
Foundation construction		
Building construction		
Site grading		
Site cleanup		

By my signature below, I certify that all items are acceptable and the project site is in compliance with the WPAP.

Inspector's Name

Inspector's Signature

Name of Jobsite

Date

Temporary Stormwater Section Attachments

Date: _____

Attachment J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Permanent on-site stabilization measures will include the following:

- Permanent planting, sodding, or seeding;
- Preservation of natural resources.

Disturbed areas on which construction activity has ceased (temporarily or permanently) shall be stabilized within 14 days unless further activities are scheduled, and resume within 21 days.

Where snow cover or frozen ground conditions hinder the initiation of stabilization measures by the 14th day, the stabilization measures must be initiated as soon as it is practical.

In arid areas, semiarid areas, and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased, stabilization measures must be initiated as soon as practicable. Where vegetative controls are not feasible due to arid conditions, the operator shall install non-vegetative erosion controls or temporary sediment controls. The operator must document in the WPAP the reason why stabilization measures are not feasible, and must demonstrate that the perimeter controls will retain sediment on site to the maximum practical extent.



Permanent Stormwater Section

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

REGULATED ENTITY NAME: Countryside Tower Site (Site No. SX 3239)

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

- 1. <u>X</u> Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
- 2. <u>X</u> 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.
 - X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - 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 provided below:
- 3. <u>X</u> 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.
- 4. X 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.
 - ____ This site will be used for low density single-family residential development and has 20% or less impervious cover.
 - This site will be used for low density single-family residential development but has more than 20% impervious cover.
 - X This 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 multifamily 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. This 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 found at the end of this form.

- ____ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- X This site will not be used for multi-family residential developments, schools, or small business sites.

6. **ATTACHMENT B - BMPs for Upgradient Stormwater.**

- X 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 identified as **ATTACHMENT B** at the end of this form.
- ____ If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT B** at the end of this form.
- ____ If 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, an explanation is provided as **ATTACHMENT B** at the end of this form.

7. ATTACHMENT C - BMPs for On-site Stormwater.

- X 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 identified as **ATTACHMENT C** at the end of this form.
- If 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, an explanation is provided as **ATTACHMENT C** at the end of this form.
- 8. <u>X</u> 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 provided at the end of this form. Each feature identified in the Geologic Assessment as "sensitive" has been addressed.
- 9. <u>N/A</u> 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" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring "sensitive" or "possibly sensitive" features on this site.
 - **ATTACHMENT E Request to Seal Features.** A request to seal a naturallyoccurring "sensitive" or "possibly sensitive" feature, that includes a justification as to why no reasonable and practicable alternative exists, is found at the end of this form. A request and justification has been provided for each feature.
- 10. X ATTACHMENT F Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ

Construction Notes, all man-made or naturally occurring geologic features, all proposed structural measures, and appropriate details must be shown on the construction plans.

- ATTACHMENT G Inspection, Maintenance, Repair and Retrofit Plan. A plan for the 11. Х inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.
- 12. <u>X</u> The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.
 - ATTACHMENT H Pilot-Scale Field Testing Plan. A plan for pilot-scale field testing is provided at the end of this form.
- 13. ATTACHMENT I -Measures for Minimizing Surface Stream Contamination. А Χ_ 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 provided at the end of this form. 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.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

- 14. The applicant is responsible for maintaining the permanent BMPs after construction Х 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.
- 15. A copy of the transfer of responsibility must be filed with the executive director at the N/A 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.

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

An Mu

Signature of Customer/Agent

2-1-11



TCEQ-0600 (Rev. 10/01/04)

Date

Attachment A

20% OR LESS IMPERVIOUS COVER WAIVER

The site will not be used for a multi-family residential development, school or small business, and is not eligible for the impervious cover waiver.

Attachment B

BMPs FOR UP-GRADIENT STORMWATER

The site will utilize permanent vegetative filter strips to filter out particles from storm water prior to that water leaving the property. Up-gradient storm water that flows through the property is filtered through these strips as well. Vegetative filter strips are utilized in areas of low-velocity flow for the filtration of fine particles from within storm water. The vegetative filter strip will consist of dense, natural vegetation with a slope of less than five percent. The entirety of vegetative filter strip areas will be under the control of the applicant and maintained as detailed below. The vegetative filter strips will be maintained in the areas indicated on the following Permanent BMP map with a minimum width of 15 feet perpendicular to the flow of storm water. Weeding, replanting and general maintenance should be done more frequently in the first couple of years until the site vegetation is well-established. Basic maintenance of the vegetative filter strips includes:

- With native grasses in place, mowing should be performed a minimum of twice a year with a mulching mower;
- Fertilizer, insecticide and herbicide use should be kept to a minimum;
- Debris and litter should be removed no less than four times a year to reduce "floatables" being washed downstream;
- In the event that excess sediment accumulates and interferes with flow patterns, the excess sediment should be removed by hand or with flat-bottomed shovels;
- Bare spots and eroded areas must by filled, compacted, reseeded and restored as quickly as possible with similar native grasses;
- Irrigation may be required during dry periods to maintain vegetative health and site stability.

The required or recommended schedule of inspection for vegetative filter strips is described in Attachment G, below.







Date Revised: 1/27/2011 Revised By: Amanda Watson Checked By: Cal Chapman Countryside Tower Site No. SX 3239 11844 FM 1863 Comal County, TX

Permanent BMPs

Attachment C

BMPs FOR ON-SITE STORMWATER

Vegetative filter strips will be utilized to maintain quality for stormwater originating on-site or flowing away from the property. The vegetative filter strips will be constructed as described in Attachment B and placed in the locations indicated on the Permanent BMP map. Once the site has become stabilized and the permanent BMPs are in place, regular operational use, routine maintenance, and inspections by the Applicant are the only activities anticipated. Soils may be disturbed by these typical operations, and the vegetative filter strips are intended to reduce sediment particles leaving the property, long-term. No other contaminant types are expected in the future.



Attachment D

BMPs for Surface Streams

No sensitive features were identified in the Geologic Assessment. Vegetative filter strips described in Attachment B will be utilized to maintain stormwater quality before the stormwater leaves the property and enters the surface stream southeast of the property.

Attachment E

REQUEST TO SEAL FEATURES

Not applicable. No sealing of naturally occurring sensitive features will occur at the site. No sensitive features were identified on the property in the Geologic Assessment.

Attachment F

CONSTRUCTION PLANS

The site will utilize permanent vegetative filter strips to filter out particles from storm water prior to that water leaving the property. Up-gradient stormwater that flows through the property is filtered through these strips as well. Vegetative filter strips are utilized in areas of low-velocity flow for the filtration of fine particles from within storm water.

The vegetative filter strip will consist of dense, natural vegetation with a slope of less than five percent. The entirety of vegetative filter strip areas will be under the control of the applicant and maintained as detailed below. The vegetative filter strips will be maintained in the areas indicated on the following Permanent BMP map with a minimum width of 15 feet perpendicular to the flow of storm water.

The vegetative filter strip soil surface should be hydro-seeded and fertilized in a single treatment, or amended with native grass seed and composted mulch (one inch, average, of free mulch thickness to be mixed with native soil as available).

Vegetated filter strips require regular inspection to ensure proper distribution of flows, examine for signs of rill formation, and check for and remove accumulated sediment. Weeding, replanting and general maintenance should be done more frequently in the first couple of years until the site is well-established.

If a concentrated flow path is apparent across any portion of the vegetative filter strip, a "flow spreader" (also called "level spreader") device must be installed across the flow path. This may be rock berm material, with or without wire wrap. The flow spreader will diffuse the water flow and provide "sheet flow" conditions.

Basic maintenance of the vegetative filter strips includes:

- With native grasses in place, mowing should be performed a minimum of twice a year with a mulching mower;
- Fertilizer, insecticide and herbicide use should be kept to a minimum;
- Debris and litter should be removed no less than four times a year to reduce "floatables" being washed downstream;
- In the event that excess sediment accumulates and interferes with flow patterns, the excess sediment should be removed by hand or with flat-bottomed shovels;
- Bare spots and eroded areas must by filled, compacted, reseeded and restored as quickly as possible with similar native grasses;
- Irrigation may be required during dry periods to maintain vegetative health and site stability.

The required or recommended schedule of in the for vegetative filter strips is described in Attachment G, below.



Water Pollution Abatement Plan Attachments

Attachment G

INSPECTION, MAINTENANCE, REPAIR and RETROFIT PLAN

Vegetative filter strips should be inspected at least monthly during the first few months after establishment to identify and repair problems. An additional inspection should be conducted after every heavy rainfall event to determine the effectiveness of the controls. These inspections and maintenance activities should reduce weed production and insect infestation, which will in turn reduce any need for chemical use. Bare spots and erosion concerns should be addressed immediately to prevent further damage. Once the vegetative filter strips are well-established with minimal further attention required according to inspection data, inspections can be reduced to no less than four times a year.

All inspections are to be documented through completion of the attached form. Records should be kept with a copy of the WPAP. The vegetative filter strips should be maintained as described in Attachment B.

LANDRY MCCLUNG PROSECT MANAGER

MERICAN TOWER





Water Pollution Abatement Plan Attachments

Attachment G

INSPECTION, MAINTENANCE, REPAIR and RETROFIT PLAN

Vegetative filter strips should be inspected at least monthly during the first few months after establishment to identify and repair problems. An additional inspection should be conducted after every heavy rainfall event to determine the effectiveness of the controls. These inspections and maintenance activities should reduce weed production and insect infestation, which will in turn reduce any need for chemical use. Bare spots and erosion concerns should be addressed immediately to prevent further damage. Once the vegetative filter strips are well-established with minimal further attention required according to inspection data, inspections can be reduced to no less than four times a year.

All inspections are to be documented through completion of the attached form. Records should be kept with a copy of the WPAP. The vegetative filter strips should be maintained as described in Attachment B.



Inspection Record

Date:	

Pollution Prevention Measure	Condition	Comments/Description
General		
Vegetative Growth/Height		
Bare spots		
Weed growth		
Excess sediment		
Insect nuisance		
Animal nuisance		
Debris/trash		
Drainage pathways		

Need to be Scheduled	Yes	No	Comments/Description
Mowing			
Insect pest control (specify type)			
Animal pest control (specify type)			
Removal of sediment			
Removal of debris/trash (specify amount/equipment necessary)			

Additional Comments:

By my signature below, I certify that all items are acceptable and the project site is in compliance with the WPAP.

Inspector's Name

Inspector's Signature

Name of Jobsite

Date

Water Pollution Abatement Plan Attachments

Attachment H

PILOT-SCALE FIELD TESTING PLAN

Not applicable. The TCEQ Technical Guidance Manual was utilized to design the permanent BMPs for this site.

Attachment I

MEASURES for MINIMIZING SURFACE STREAM CONTAMINATION

Vegetative filter strips will be utilized to maintain storm-water quality before that water enters the unnamed tributary of Dry Comal Creek. The installation and maintenance of the vegetative filter strips are described in Attachments B, F and G, with inspection criteria outlined in Attachment G. The use of native grasses allows no change to the existing grade of the property. There will be no grading activities during the construction of the tower site that would alter the flow velocity of storm water flowing through the property once permanent controls have been established. Regular inspections and maintenance of the controls will prevent alteration in drainage pathways on the property. The controls will prevent the property improvements from causing an increase of stream flashing, stronger flows, increased in-stream velocities and other erosion-related effects on the tributary.

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

1	Steven	Cockman
-	add 19 <mark>6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 </mark>	Print Name
	Senior Pro	ject Manager
	kanan (JAN), an an an di FAN An an an SAN AN A	Title - Owner/President/Other
of	American	Tower Corporation
		Corporation/Partnership/Entity Name
have	authorized	Douglas McGookey, PG
		Print Name of Agent/Engineer
of	Medina Consu	ulting Company, Inc.
		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.

non Applicant's Signature

12/1/10

THE STATE OF MAS County of Lake _§

BEFORE ME, the undersigned authority, on this day personally appeared <u>Stren Cockman</u> 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	Ist	_day of	Derein	<u>er, 2010.</u>
--	-----	---------	--------	------------------

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: FEDMAN ,2014

.

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Form

	yside Tower Site (Site No. SX 3239)
REGULATED ENTITY LOCATION: <u>11844 Farm to Marke</u>	t Road 1863, New Braunfels, Texas, 78132
NAME OF CUSTOMER: <u>American Tower Corporation</u> CONTACT PERSON: Douglas McGookey, PG	PHONE: 210 694-4545
(Please Print)	FIIONE. 210 094-4343
Customer Reference Number (if issued): CN	(nine digits)
Regulated Entity Reference Number (if issued): RN	(nine digits)
Austin Regional Office (3373)	Travis 🔲 Williamson
San Antonio Regional Office (3362) 🔲 Bexar	🗙 Comal 🔲 Medina 🗌 Kinney 🔲 Uvalde
Environmental Quality. Your canceled check will ser	or money order, payable to the Texas Commission on
your fee payment. This payment is being submitted to	
your fee payment. This payment is being submitted to Austin Regional Office	
	(Check One):
Austin Regional Office Mailed to TCEQ: TCEQ – Cashier	 (Check One): San Antonio Regional Office Overnight Delivery to TCEQ: TCEQ - Cashier
Austin Regional Office Mailed to TCEQ: TCEQ – Cashier Revenues Section	 (Check One): San Antonio Regional Office Overnight Delivery to TCEQ: TCEQ - Cashier 12100 Park 35 Circle
Austin Regional Office Mailed to TCEQ: TCEQ – Cashier Revenues Section Mail Code 214	 (Check One): San Antonio Regional Office Overnight Delivery to TCEQ: TCEQ - Cashier 12100 Park 35 Circle Building A, 3rd Floor
Austin Regional Office Mailed to TCEQ: TCEQ – Cashier Revenues Section	 (Check One): San Antonio Regional Office Overnight Delivery to TCEQ: TCEQ - Cashier 12100 Park 35 Circle
 Austin Regional Office Mailed to TCEQ: TCEQ – Cashier Revenues Section Mail Code 214 P.O. Box 13088 	 (Check One): San Antonio Regional Office Overnight Delivery to TCEQ: TCEQ - Cashier 12100 Park 35 Circle Building A, 3rd Floor Austin, TX 78753 512/239-1278

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	0.34 Acres	\$ 3,000.00
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	\$

In Ma Signature

2-1-1(Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

TCEQ-0574 (Rev. 4/25/08)

Texas Commission on Environmental Quality Edwards Aquifer Protection Program Application Fee Schedule 30 TAC Chapter 213 (effective 05/01/2008)

PROJECT	PROJECT AREA IN ACRES	FEE
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	\$1,500 \$3,000 \$4,000 \$6,500 \$8,000 \$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	<pre>< 1 1 < 5 5 < 10 10 < 40 40 40 < 100 ≥ 100</pre>	\$3,000 \$4,000 \$5,000 \$6,500 \$8,000 \$10,000

Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

Organized Sewage Collection Systems and Modifications

PROJECT	COST PER LINEAR FOOT	MINIMUM FEE MAXIMUM FEE
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

PROJECT	COST PER TANK OR PIPING SYSTEM	MINIMUM FEE MAXIMUM FEE
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

PROJECT	FEE
Exception Request	\$500

Extension of Time Requests

PROJECT	FEE
Extension of Time Request	\$150



TCEQ Core Data Form



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)								
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)								
Renewal (Core Data Form should be submitted with the renewal form) Other								
2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)								
XYes □No Countryside Tower Site (Site No. SX 3239) Water Pollution Abatement Plan (V	/PAP)							
3. Customer Reference Number (<i>if issued</i>) Follow this link to search for CN or RN numbers in								
CN 601401458 Central Registry** RN								
SECTION II: Customer Information								
5. Effective Date for Customer Information Updates (mm/dd/yyyy) November 30, 2010								
6. Customer Role (Proposed or Actual) - as it relates to the <u>Regulated Entity</u> listed on this form. Please check only one of the following:								
XOwner Operator Owner & Operator								
Occupational Licensee Responsible Party Voluntary Cleanup Applicant Other:								
7. General Customer Information								
New Customer Update to Customer Information Change in Regulated Entity Owners	hip							
Change in Legal Name (Verifiable with the Texas Secretary of State)								
**If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.								
8. Type of Customer: X Corporation Individual Sole Proprietorship- D.B.A								
City Government County Government Federal Government State Government								
Other Government General Partnership Limited Partnership Other:								
9. Customer Legal Name (If an individual, print last name first: ex: Doe, John) If new Customer, enter previous Customer below	<u>x</u>							
American Tower Corporation								
Wilder Castillo								
10. Mailing Address: 16500 Henderson Pass, Suite 309								
City San Antonio State Texas ZIP 78232 ZIP + 4								
11. Country Mailing Information (if outside USA) 12. E-Mail Address (if applicable)								
wilder.castillo@americantower.com								
13. Telephone Number14. Extension or Code15. Fax Number (if applicable)								
(210) 387-5725 () -								
16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number (if applicable) 19. TX SOS Filing Number (if applicable) 17604488084 17604488084 18. DUNS Number (if applicable) 19. TX SOS Filing Number (if applicable)								
20. Number of Employees 21. Independently Owned and Operated?								
0-20 21-100 101-250 251-500 501 and higher X Yes No	0-20 21-100 101-250 251-500 501 and higher Yes No							
SECTION III: Regulated Entity Information								

22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)							
X New Regulated Entity	Update to Regulated Entity Name	Update to Regulated Entity Information	No Change** (See below)				
"If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.							
23. Regulated Entity Name (name of the site where the regulated action is taking place)							
Countryside Tower Site (Site No. 3239)							

24. Street Address	11844 Farm to Market Road 1863							
of the Regulated Entity:						-		
(No P.O. Boxes)	City New Braunf	els State	Texas	ZIP	78132	ZIP + 4		
	Not Applicable - u	unmanned fa	cility					
25. Mailing Address:								
	City	State	•	ZIP		ZIP + 4		
26. E-Mail Address:								
27. Telephone Number	r	28. Exten	sion or Code	29	Fax Number (if applic	able)		
() -				() -			
30. Primary SIC Code	digits) 31. Secondar	y SIC Code (4 digit	s) 32. Primary (5 or 6 digits)		15 - 0 -	condary NAICS Code		
4812			517	2/0	m			
34. What is the Prima	ry Business of this entity	? (Please do noi	repeat the SIC or N					
195-foot tall self support tower, equipment building, fence, and access road for a cellular communication facility								
Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.								
35. Description to The Site is east of the intersection of Farm to Market Road 1863 and Schoenthal Road on the south side Farm to Market Physical Location: Road 1863 across the road from the Countryside subdivision								
20 No. 1 01		0			C1-1-	New York 71D Octo		

36. Nearest City				County		State			Nearest ZIP Code
New Braunfel	S		1	Comal		Теха	as		78132
37. Latitude (N)	n Decimal:	28.709453	5		38. Longitude (W) Ir	Decimal:	-98.24	9842
Degrees	Minutes	S	Seconds		Degrees		Minutes		Seconds
29	42	3	34.03	3	-98		14		59.43

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 or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

Dam Safety	Districts	X Edwards Aquifer	Industrial Hazardous Waste	Municipal Solid Waste
New Source Review – Air	OSSF	Petroleum Storage Tank	D PWS	Sludge
Stormwater	Title V – Air	Tires	Used Oil	Utilities
Voluntary Cleanup	Waste Water	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Douglas M	cGookey, PG		41. Title:	Principal Geologist/Vice President
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(210)694	-4545		(210)694-4577	dmcgool	key@medinacci.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 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	Medina Consulting Company, Inc.	Job Title:	Princip	al Geolog	ist/Vice President
Name(In Print):	Douglas McGookey, PG			Phone:	(210)694-4545
Signature:	Alma			Date:	November 30, 2010