THE

AQUIFER PROTECTION PLAN

PROJECT NAME: ___________________________

APPLICANT: ______________________________

DATE: ________________________________

Revised: April, 2007
AQUIFER PROTECTION PLAN

For Activities Which Require Pollution Prevention Practices on the Edwards Aquifer Recharge Zone/Drainage/Contributing Zone Area.

No development shall be undertaken on any land, tract, parcel, or lot which is within the boundaries of the Edwards Aquifer Recharge Zone and which is also subject to regulation by Chapter 34 of the City Code Article VI, Division 6 unless and until an Aquifer Protection Plan is issued by the Resource Protection and Compliance Department of the San Antonio Water System to the owner, developer of such property or their authorized agent.

GENERAL INFORMATION

PROJECT NAME: ________________________________________________________________

ACREAGE: ________________________________________________________________

<table>
<thead>
<tr>
<th>Do Not Write in this box</th>
<th>For SAWS use only</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Updated April, 2007</td>
</tr>
</tbody>
</table>

Received by SAWS (Day 1)

Inspection Date:

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Judged Administratively</td>
</tr>
<tr>
<td>____ Complete...................</td>
</tr>
<tr>
<td>____ Incomplete...............</td>
</tr>
</tbody>
</table>

DATE

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Pollution Abatement Plan</td>
</tr>
<tr>
<td>____ Submitted ...............</td>
</tr>
<tr>
<td>____ Approved ...............</td>
</tr>
</tbody>
</table>

DATE

Has a Variance been requested?  ____ Yes  ____ No

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>____ Approved</td>
</tr>
<tr>
<td>____ Incomplete and Returned</td>
</tr>
<tr>
<td>____ Disapproved</td>
</tr>
</tbody>
</table>
THE AQUIFER PROTECTION PLAN

The following information must be provided to the Resource Protection & Compliance Department. All questions must be completed on the application and all information provided on the Aquifer Protection Plan. Category 1 properties are not required to fill out the Aquifer Protection Plan (formerly known as the Site Development Plan/Letter of Certification).

APPLICATION:
SOURCE: Page six (6) of the Aquifer Protection Ordinance No. 81491

Aquifer Protection Plan (s)

The following information must be included in the Aquifer Protection Plan (s). Please check “SB” for Submitted or “NA” for Not Applicable. Failure to comply with these requirements constitutes cause for rejection of the plan (s).

<table>
<thead>
<tr>
<th>SB</th>
<th>NA</th>
<th>(SB=Submitted NA=Not Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.  |    | The date, written scale and bar scale, north arrow, and key site plan showing the location of the tract on which the development is to take place. |
2.  |    | The existing boundary lines and acreage of the tract on which the development is to take place, and the common boundary lines and names of the owners of adjacent properties. |
3.  |    | Identification of all existing and/or proposed Floodplain Preservation Areas, floodplain buffer zones, highly significant recharge features and buffer zones, and all such other areas with restrictions as required by this article. |
4.  |    | A detailed erosion/sedimentation control plan and construction sequencing plan required by Section 34-975 of the Aquifer Protection Ordinance # 81491. |
5.  |    | A detailed drainage plan and street layout that comply with the requirements of this division (Aquifer Protection Ordinance # 81491). |
6.  |    | Engineering drawings showing compliance with the applicable requirements of this division (Aquifer Protection Ordinance # 81491) for control strategies on development. |
7.  |    | A report, site plan, and/or other relevant information addressing the Best Management Practices as required by sections 34-965 through 34-975 (Aquifer Protection Ordinance # 81491). |
8. ____ ____ A topographic map, drawn to a scale of one hundred (100) feet to one inch, or at a scale appropriate for the size of the development. The map should display, according to the best information available, topographic and geologic information and features (including, but not limited to, faults and fractures along waterways, and sinkholes), and proposed and existing floodplain preservation areas. Details of buffering for features and floodplains when applicable.

9. ____ ____ The location, type of use, and total percentage of proposed and existing impervious cover on the site, in conformance with this Division. Impervious cover shall include asphalt and concrete surfaces, sidewalks, rooftops, swimming pools and other surfaces which do not allow percolation into the subsurface.

10. ____ ____ Location of all temporary and permanent runoff detention basins, constructed and altered waterways and other physical facilities to be installed to comply with the terms of this division.

11. ____ ____ An affidavit from the appropriate affiant showing acceptance of legal and financial responsibility for structural controls, maintenance cost, monitoring, and remediation.

12. ____ ____ Final plans for underground utility installation shall be submitted with the Aquifer Protection Plan and shall show maximum construction corridor widths.

13. ____ ____ Location of all monitoring stations, sample points or other significant devices used to obtain, measure, or assure water quality.

14. ____ ____ Any baseline water quality data from surface water samples required to be taken or maintained under regulations established by the San Antonio Water System.

15. ____ ____ A maintenance plan which provides the proposed schedule and details of maintenance which will be performed to ensure the proper operation and effectiveness of all control structures.

16. ____ ____ Special notes or attachments as may be required by other Sections of this Division.

17. ____ ____ Has the site plan (s) been sealed by a registered professional engineer?
San Antonio Water System
Aquifer Protection Plan

COMPLETELY FILL OUT THE FOLLOWING INFORMATION

1. Person making inquiry:

   Contact Person:
   Entity:
   Mailing Address:
   City, State:
   Zip Code:
   Telephone:
   Fax:

2. Agent (If any):

   Contact Person:
   Entity:
   Mailing Address:
   City, State:
   Zip Code:
   Telephone:
   Fax:

3. Enter Site Address (if assigned):

   Street (If assigned):
   City, Zip:

(Check appropriate box)

<table>
<thead>
<tr>
<th>Relationship To Recharge Zone</th>
<th>GOVERNMENTAL JURISDICTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inside San Antonio City Limits</td>
</tr>
<tr>
<td>Acreage within Transition Zone</td>
<td></td>
</tr>
<tr>
<td>Acreage within Recharge Zone</td>
<td></td>
</tr>
<tr>
<td>Acreage within Contributing Zone Area</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL PROJECT ACREAGE
4. The location of the project site is generally described below (Example "NE corner of Bitters & Heimer Roads", "On east side of Heimer Road, 1/4 mile north of Bitters Road").

5. A copy of the official 7 1/2 minute USGS quadrangle map(s) of the Edwards Recharge Zone is attached behind this sheet. Maps are available from:

   Edwards Aquifer Authority (Edwards Underground Water District) (210) 222-2204
   Ferguson Map Company (210) 829-7629.

   The map(s) should clearly show:
   1. Project Site.
   2. USGS Quadrangle Name(s).

6. The locations of all known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.). Mark all that apply.

   6A. There are no wells or test holes of any kind known to exist on this project site:
   6B. #____ well(s) will be drilled and used for __________________________;
   6C. #____ well(s) are present on the project site and their locations are labeled on the Site Plan.

       (1) _____ The well(s) have been properly abandoned.
       (2) _____ The well(s) are not in use and will be properly abandoned.
       (3) _____ The wells are in use and comply with Chapter 34 of the San Antonio City Code, Article VI, Division 2, entitled Wells containing Sections 34-566 thru Sections 34-590. The well(s) will be used for __________________________.
7. The **type of project** is:
   (Check all that apply)

<table>
<thead>
<tr>
<th></th>
<th># of Lots</th>
<th># of Living Unit Equivalents</th>
<th>Projected Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Family</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Utility</td>
<td></td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Recharge Structure/Dam</td>
<td></td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. A narrative description of the proposed project is included below:

________________________________________________________________________
________________________________________________________________________

9. Buffering if applicable
   ____  Floodplain – Describe how the floodplain will be buffered:

   ________________________________________________________________
   ________________________________________________________________
   ____  Sensitive/Significant Features ("sensitivity of \( \geq 40 \) and a catchment area of \( \geq 1.6 \) acres-
   from Geological Assessment") – Describe how the feature/s will be buffered:

   ________________________________________________________________
   ________________________________________________________________

10. Impervious cover of Project
    ____  Impervious cover of portion of project within the Edwards Aquiver Recharge Zone
          Percentage       Acreage
    ____  Impervious cover of portion of project within the Contributing Zone
          Percentage       Acreage

    ____  San Antonio Water System
    ____  Water Purveyor: ____________________________________________
    ____  Other: ____________________________
    ____  Private on-site water well(s). Source of water (formation)(if known)__________
    ____  No potable water will be needed for this project.
12. Source of Non-Potable water.

___ Non Applicable
___ Private on-site water well(s).  Source of water (formation)(if known) ____________
___ Other: ________________________________________________________________

13. The existing conditions on the project site are noted below.

The project site is:
___ Existing commercial site
___ Existing industrial site
___ Existing residential site
___ Existing paved and/or unpaved roads
___ Undeveloped (Clear)
___ Undeveloped (with woods and meadows)
___ Partially Developed.
___ Other ___________________________________________________________________

14. Municipal Solid waste, and/or hazardous waste:

___ There are areas of trash, debris or other municipal solid waste or hazardous waste on this property which will be disposed of properly at an authorized landfill prior to commencing construction.

___ There are no areas of trash, debris or other municipal solid waste or hazardous waste existing on this property.

___ Other comments describe below:

____________________________________________________________________________

____________________________________________________________________________

15. Wastewater to be generated by proposed project.

<table>
<thead>
<tr>
<th>Character</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>___ % Domestic</td>
<td>_____ gallons/day</td>
</tr>
<tr>
<td>___ % Industrial</td>
<td>_____ gallons/day</td>
</tr>
<tr>
<td>___ % Commingled</td>
<td>_____ gallons/day</td>
</tr>
<tr>
<td>TOTAL</td>
<td>_____ gallons/day</td>
</tr>
</tbody>
</table>
16. The Method of Wastewater Disposal is:

16A. On-Site Sewage Treatment (Septic Tank):

On-site septic tanks will be used to treat and dispose of wastewater. The appropriate licensing authority's letter is attached directly behind this page. It states that the land is suitable for the use of a septic tank or identifies areas that are not suitable.

Furthermore, I am aware that the minimum lot size in Bexar County for an on-site sewage treatment facility on the Recharge Zone is one (1) acre. Each lot in this project / development is at least one (1) acre in size and the on-site treatment facility will be designed and installed by a Texas licensed sanitarian or engineer. A copy of the letter from the County or City approving the use of on-site sewage treatment designed in accordance with County and City requirements is attached.

_______________________________  _______________________
Signature  Date

16B. On-Site Sewage Collection System (Sewer Lines):

An organized public or private (circle one) sewage collection system (SCS) will convey wastewater from this project off of the Recharge Zone for treatment and disposal at the EXISTING / PROPOSED (circle one) Sewage Treatment Plant (S.T.P.).

16C. For sewer lines, all private service laterals will be inspected by:

Entity Name: _______________________________________________________
Address: _______________________________________________________
City, State, Zip: ___________________________________________________
Telephone: _______________________________________________________
Fax: _____________________________________________________________
STATE OF TEXAS §
COUNTY OF BEXAR §

ON THIS DAY CAME BEFORE ME THE UNDERSIGNED INDIVIDUAL ACTING IN THE CAPACITY STATED HEREIN, AND BEFORE ME, AFTER FIRST BEING DULY SWORN, DID ATTEST AND AFFIRM TO THE FOLLOWING STATEMENTS AND UNDERTOOK THE FOLLOWING OBLIGATIONS TO-WIT:

"I, ______________________________________, the undersigned, in my capacity as __________________________ of __________________________, in compliance with Chapter 34, Section 34-911 of the City Code of the City of San Antonio, and acting thereunder as an "affiant" as that term is defined in Section 34-908 of the Code, have made and executed this document on behalf of __________________________, in association with the filing of an application for the Aquifer Protection Plan on the ____ day of ________________, 20___ with the San Antonio Water System, relating to the following development project:

_________________________________________________
_________________________________________________

In the above described capacity I, the undersigned, hereby certify and affirm that, in relation to the development identified above, I assume financial and legal responsibility for the maintenance, operation, and effectiveness of structural controls, the performance of remediation (if required), and the performance of all required monitoring of surface water, as those duties are set out in Chapter 34, Article VI, Division 6 of the City Code of the City of San Antonio, Texas. I further affirm that I am over the age of 18 years, am of sound mind, am authorized to act on behalf of and to bind the individuals or entities identified above to this obligation in the capacity under which I am executing this document."

FURTHER AFFIANT SAYETH NOT.

________________________________________
Signature

________________________________________
Printed Name

________________________________________
Title

________________________________________
Address

SUBSCRIBED AND SWORN TO BEFORE ME THIS ___ DAY OF ________________________, 20__.

________________________________________
Notary Public
Helpful Information:

- **Watershed**: The term watershed describes an area of land that drains downslope to the lowest point. The water moves through a network of drainage pathways, both underground and on the surface. Generally, these pathways converge into streams and rivers, which become progressively larger as the water moves on downstream, eventually reaching an estuary and the ocean. Other terms used interchangeably with watershed include drainage basin or catchment basin.

- **Watershed Protection & Management Department (WPMD) changed to Source Water & Watershed Protection Department changed to Resource Protection and Compliance Department**: The department within the San Antonio Water System (SAWS) designated to apply and enforce the provisions of this Section (Aquifer Protection Ordinance No. 81491).

- **A Category 1 property is not required to fill out an Aquifer Protection Plan however, a substantial alteration to the original plans may result in a change of category status which might then require an Aquifer Protection Plan.**

- **Nodes**

![Example of intersection nodes](image-url)
Geologic Assessment Table from Texas Commission on Environmental Quality (TCEQ) Water Pollution Abatement Plan.

Identify features with a “sensitivity of ≥40 and a catchment area of ≥1.6 acres”

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>FEATURE CHARACTERISTICS</th>
<th>EVALUATION</th>
<th>PHYSICAL SETTING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*DATA:

- **2A TYPE**: Type of feature
- **3B POINTS**: Points of occurrence

<table>
<thead>
<tr>
<th>TYPE</th>
<th>2B POINTS</th>
<th>3B POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>SF</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>MB</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>SW</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>SH</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>CD</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**12 TOPOGRAPHY**

- **C1**: Cliff, Hilltop, Hiilsides, Drainage, Floodplains, Streambed
- **C2**:...