

## Attachment A

### Edwards Aquifer Authority (Authority) Water Quality Advisory Task Force

#### Summary of Recommendations from the Water Quality Advisory Task Force

Primary/Core Issue	Jurisdictional Area	Recommendation
Report Page B-1 Initiate funding mechanisms for programs such as well Abandonment	Authority Rules, Chapter 713, Subchapter D ,713.303 (c).	The Authority and other agencies should assist in developing a well abandonment fund.
Report Page B-2 Initiate funding mechanisms for programs such as well repair	Authority Rules, Chapter 713, Subchapter D ,713.201.	The Authority and other agencies should assist in developing a well maintenance and repair program.
Report Page B-3 Land acquisition in the Edwards Aquifer Recharge Zone and Contributing Zone.	There is no regulatory program that requires land acquisition.	The Authority should assist and work with other agencies in developing programs such as land acquisition.

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-4</p> <p>Promote education awareness of the issues that affect the water quality of the aquifer.</p>	<p>There is no regulatory program that facilitates educational awareness.</p>	<ul style="list-style-type: none"> <li>• The subcommittee understands that the Authority currently has an educational program; however, the subcommittee believes this effort should be continued, and expanded.</li> <li>• This educational awareness effort should include home owners as part of the targeted audience. A large number of home owners, living over the Edwards Aquifer Recharge Zone, may unknowingly be impacting the aquifer by use of lawn care products and other hazardous products and activities, such as automotive maintenance, etc..</li> <li>• This educational awareness effort should include home builders as part of the targeted audience.</li> <li>• This educational awareness effort should include the installation of highway signs that enhance citizen awareness of the location of the recharge zone..</li> </ul>
<p>Report Page B-5</p> <p>Develop a methodology to determine areas that have significant potential for contaminants to enter the aquifer.</p>	<p>There is no regulatory program that requires research support</p>	<p>The subcommittee understands that the Authority is currently involved with several research endeavors, and the subcommittee believes this effort should be continued and expanded. Funding participation from other agencies should be acquired as required.</p>

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-6</p> <p>Support research that would investigate: long term impacts of development on the Edwards Aquifer Recharge Zone, Contributing Zone and Transition Zone, establish pollutant loading limitations with strategies to achieve the limitations, and modeling to develop actual impervious cover goals.</p>	<p>There is no regulatory program that requires research support.</p>	<p>The subcommittee understands that the Authority is currently involved with several research endeavors; however the subcommittee believes this effort should be continued and expanded. Funding from other agencies should be acquired as appropriate.</p>
<p>Report Page B-7</p> <p>Establish a database of existing rules and regulations that impact the groundwater of the Edwards Aquifer region.</p>	<p>There is no regulatory program that requires all regulations to be compiled.</p>	<ul style="list-style-type: none"> <li>• Establish a database of existing rules and regulations that affect the groundwater of the Edwards Aquifer region.</li> <li>• Determine areas that are currently protected and areas that are not currently protected.</li> </ul>
<p>Report Page B-8</p> <p>Continue to monitor water quality in the impacted areas of the Edwards Aquifer</p>	<p>The TCEQ has numerous regulatory programs to address contamination of waters of the state. In addition, there are federal drinking water standards that define the permissible amount of contaminants in drinking water.</p>	<p>Authority should assist in the development of programs and work with other agencies to fund programs such as studying areas of water quality impacts.</p>

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-9</p> <p>Develop methodologies for improved design of stormwater detention basin filtering systems and increase stormwater volume capacity.</p>	<p>30 TAC Chapter 213</p>	<p>Authority to develop methodologies for improved stormwater detention basin design</p>
<p>Report Page B-10</p> <p>Develop methodologies to determine sustainable development.</p>	<p>None</p>	<p>Authority to study the issue and develop methodologies to determine sustainable development.</p> <p>In order to fulfill this requirement, it will be essential to enhance scientific understanding, improve long-term scientific assessments, strengthen scientific capacities in many research areas and ensure that the sciences are responsive to emerging needs.</p>
<p>Report Page B-11</p> <p>Regulate permit procedures for quarries in regards to storage and use of nitrogen containing compounds on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>Code of Federal Regulations, Title 29, Volume 5, Chapter XVII, Part 1910, contains storage requirements for explosives and blasting agents.</p> <p>30 Texas Administrative Code, Chapter 290 Subchapter F has established a maximum concentration of total nitrates in drinking water at 10 mg/L.</p>	<p>Authority to study the issue.</p>

### Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-12</p> <p>Develop an investigation response program for investigation of water quality problems on the Edwards Aquifer Recharge Zone and Contributing Zone.</p>	<p>30 TAC Chapter 350 (Texas Risk Reduction Program), not recharge zone related but for entire state.</p> <p>Similar federal programs also exist.</p>	<p>Authority staff to provide technical and regulatory assistance in the management of groundwater impacts to the Edwards Aquifer and other contamination that may result from spills within the Edwards Aquifer Region.</p>
<p>Report Page B-13</p> <p>Develop regulations that transfer the ownership of water quality basins located on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing zone to the public sector.</p>	<p>30 Texas Administrative Code, Chapter 213 requirements for Best Management Practice (BMP) structures design, construction, maintenance, inspection, and licensing.</p>	<p>Authority to study the issue.</p>
<p>Report Page B-14</p> <p>Educate local, state, and federal emergency response teams about the Edwards Aquifer Recharge Zone and issues related to spills and fire protection.</p>	<p>None</p>	<p>Authority to study the issue.</p>
<p>Report Page B-15</p> <p>Regulate minimum qualifications for geologists performing geologic site assessments on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>The 30 TAC Chapter 213 defines a geologist as a “Texas licensed professional geoscientist” and the Texas Board of Professional Geoscientists, Administrative Rules of the Texas Board of Professional Geoscientists, 22 Texas Administrative Code, Part 39, Chapters 850 and 851 defines a professional geologist.</p>	<p>Authority to study the issue (for example: continuing education program for geologists and specific karst training).</p>

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-16</p> <p>Regulate hazardous materials storage on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>Authority has rules (713.600) for above and below ground storage tanks on the recharge zone and 30 TAC Chapter 334 are the underground storage tank rules (entire state).</p> <p>Other state and federal rules apply, but not directly related to the recharge zone and contributing zone.</p>	<p>Authority to regulate within the recharge zone and the contributing zone, but work with (or delegate to) local governments who request and have the ability to regulate.</p>
<p>Report Page B-17</p> <p>Regulate proposed golf courses. Golf courses should be required to prepare, submit, and implement a natural resource management plan that includes a water quality protection plan.</p>	<p>30 TAC Chapter 213</p>	<p>Authority to regulate within the recharge zone and the contributing zone, but work with (or delegate to) local governments who request and have the ability to regulate.</p>
<p>Report Page B-18</p> <p>Regulate proposed land developments on the Edwards Aquifer Recharge Zone by requiring application forms and supporting documentation.</p>	<p>30 TAC Chapter 213e</p>	<p>Authority to request delegation from the TCEQ Chapter 213 rules program within the recharge zone and the Contributing zone.</p>

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-19</p> <p>Regulate application of pesticides, herbicides, and fertilizers on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>None.</p>	<p>Authority to study the issue.</p>
<p>Report Page B-20</p> <p>Regulate (expand) point source restrictions on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>Point Source restrictions are well regulated in many state and federal programs.</p>	<p>Authority to study the issue.</p>
<p>Report Page B-22</p> <p>Regulate on-site sewage facilities (septic systems) on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>	<p>30 TAC Chapter 285            Bexar County, County Rules            City of San Antonio, Chapter 34, Article V            City of Hill Country Village, City Ordinances uses state rules (state)            City of Hollywood Park, City Ordinances uses state,            City of Shavano Park, City Ordinances uses state,            Comal County, County Rules, Section 9 and 10            City of New Braunfels, City Ordinances uses state,            Chapter 130, Article V            Hays County, County Rules, Section 8            City of San Marcos, Chapter 86, Article 3            Medina County, County Rules            Uvalde County, County Rules uses state.</p>	<p>Authority to study the issue of regulating while continuing to monitor the impact on water quality of on-site sewage facilities on the Edwards Aquifer Recharge Zone and Edwards Aquifer Contributing Zone.</p>

## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-24</p> <p>Prohibit the application of effluent irrigation on the Edwards Aquifer Recharge</p>	<p>30 TAC Chapter 285 30 TAC Chapter 213</p>	<ul style="list-style-type: none"> <li>• Authority to prohibit the application of effluent irrigation on the Edwards Aquifer Recharge Zone.</li> <li>• Authority to study the issue of prohibiting the application of effluent irrigation on the contributing zone.</li> </ul>
<p>Report Page B-25</p> <p>Regulate wastewater pipeline and lift station construction and maintenance standards on the Edwards Aquifer Recharge Zone and Contributing Zone.</p>	<p>30 TAC Chapter 317 <i>Design Criteria for Sewerage Systems</i>, 30 TAC Chapter 213 City of New Braunfels, Chapter 130, Article V City of San Marcus, Chapter 86, Article 3</p>	<p>Authority to study the issue of regulation of wastewater pipeline and lift stations construction and maintenance standards on the Edwards Aquifer Recharge Zone and Contributing Zone.</p>
<p>Report Page B-26</p> <p>Regulate the management of stormwater pollution (storm water retention basins) by Best Management Practices (BMPs) on the Edwards Aquifer Recharge Zone and Contributing Zone. The management should include monitoring performance standards for water quality basins to decrease pollutant loading on the Edwards Aquifer Recharge Zone and Contributing Zone.</p>	<p>30 TAC Chapter 213</p>	<p>Authority to regulate within the Recharge Zone and the Contributing Zone, but work with (or delegate to) local governments who request and have the ability to regulate.</p>



## Attachment A (continued)

Primary/Core Issues	Jurisdictional Area	Recommendations
<p>Report Page B-28</p> <p>Regulate pollutant loading limits for new construction on the Edwards Aquifer Recharge Zone and Contributing Zone through a combination of impervious cover limits and performance standards.</p>	<p>City of San Marcos (COSM) <i>(Chapter 94, Article 6)</i> City of San Antonio (COSA) <i>(Chapter 34, Article VI and Ch. 35, Article III)</i> TCEQ – indirectly through 30 TAC Chapter 213</p>	<p>Authority to regulate pollutant loading rates and monitor the results within the Recharge Zone and the Contributing Zone through a combination of impervious cover limits and performance standards, but work with (or delegate to) local governments who request and have the ability to regulate.</p>
<p>Report Page B-30</p> <p>Develop regulations such that impervious cover may be increased, if mitigation land is purchased within the same sub-watershed as the proposed development on the Edwards Aquifer Recharge Zone and Contributing Zone. The increased pollutant loading rates would be required to not adversely impact the Edwards Aquifer.</p>	<p>City of San Marcos (COSM) <i>(Chapter 94, Article 6)</i> City of San Antonio (COSA) <i>(Chapter 34, Article VI and Ch. 35, Article III)</i></p>	<p>Authority to study this issue and, if feasible, to regulate within the Recharge Zone and the Contributing Zone, but work with (or delegate to) local governments who request and have the ability to regulate.</p>
<p>Report Page B-31</p> <p>Regulate Buffer Zones (stream setbacks and sensitive features) on the Edwards Aquifer Recharge Zone and Contributing Zone.</p> <p>Provide buffer zones adjacent to minor waterways, intermediate waterways, major waterways, and significant recharge features.</p>	<p>None</p>	<p>Authority to regulate within the Recharge Zone and the Contributing Zone, but work with (or delegate to) local governments who request and have the ability to regulate.</p>