

# Appendix E

Action Plan

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**Table E-1 Actions Applicable County-Wide**

| Actions Applicable County-Wide  | Key Group(s)<br>On-going or<br>One Time Action?   | Programs to Expand or to Develop<br>&<br>Type of Assistance Needed  | Priority &<br>Expected<br>Implementation<br>Year |
|---|---|---|--|
| <p><b><u>Outreach and Education</u></b></p> <p>1. Develop power point presentation for use at public meetings to inform groups regarding Source Water Protection and assist with the presentations as needed.</p>   | <p>Churchill County</p> <p>One time</p>   | <p>To be developed</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for PowerPoint development and presentations</li> </ul>  | <p>Immediate<br/>2016</p>                        |
| <p>2. Consider developing community-specific materials for web page additions, newspapers, mailings, flyers, posters, signs etc. Coordinate with and utilize existing programs such as River Wranglers, Conservation Districts, and the Chamber of Commerce. Ideas to consider include:</p> <ul style="list-style-type: none"> <li>&gt; Disseminate information regarding source water protection and environmental stewardship</li> <li>&gt; Disseminate information regarding household hazardous waste and proper storage and disposal</li> <li>&gt; Disseminate and use the Nevada Spill website <a href="http://ndep.nv.gov/bca/spil_rpt.htm">http://ndep.nv.gov/bca/spil_rpt.htm</a> to report illegal dumping</li> <li>&gt; Disseminate and use the Nevada Recycling at <a href="http://nevadarecycles.nv.gov">http://nevadarecycles.nv.gov</a> for assistance in recycling needs, including motor oil</li> <li>&gt; Publicize descriptions of BMPs and BMP resources</li> <li>&gt; Place and maintain signs designating the SWPAs</li> <li>&gt; Develop a source water protection web page</li> </ul> | <p>Churchill County<br/>Public Water Systems</p> <p>On-going effort to disseminate information; onetime effort to update information regarding current CSWP Plan.</p> | <p>Expand existing outreach programs</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for development of targeted information, logos, web design, BMP description, etc.</li> <li>&gt; Resource assistance needed for copies, postage, signage, etc.</li> </ul> | <p>Moderate<br/>2016-2018</p>                    |

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|---|---|---|--|
| <p>3. Obtain staff training regarding source water protection for appropriate County, school, PWS, and other local agency personnel.</p> <p>4. Outreach to Well Owners:</p> <ul style="list-style-type: none"> <li>&gt; Consider providing specific information to educate private well owners about proper well capping, plugging and abandonment procedures</li> </ul> <p>5. Outreach to Septic System Owners:</p> <ul style="list-style-type: none"> <li>&gt; Consider providing specific information to educate septic system owners on the importance of maintenance, proper use and removal from service. Consider using NDEP’s Domestic Septic System Fact Sheets</li> </ul> <p>6. Outreach to Businesses and Agriculture:</p> <ul style="list-style-type: none"> <li>&gt; Consider providing specific information to educate businesses regarding existing regulatory requirements for source controls on hazardous waste, materials, stormwater, non-stormwater discharges, pesticide and herbicide applications</li> <li>&gt; Coordinate with the Nevada Farm Bureau regarding source water protection outreach to the agriculture managers.</li> <li>&gt; Consider developing outreach information, talking points, and strategies to utilize in addressing properties with PCS concerns</li> <li>&gt; Become familiar with and consider distributing copies of NDOA’s Pesticide Disposal Program Pamphlet to pesticide users</li> </ul> | <p>Churchill County<br/>Public Water Systems</p> <p>On-going with periodic need for assistance.</p> | <p>Develop outreach information.</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for developing information and staff training</li> <li>&gt; Resource assistance needed for models, copies, postage, signage, etc.</li> </ul> | <p>Moderate<br/>Every 3 to 5<br/>years</p>       |

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|--|---|--|--|
| <p>7. Residential:</p> <ul style="list-style-type: none"> <li>&gt; Consider publicizing where drinking water comes from, what residents can do to keep it pure, and the importance of properly abandoning obsolete wells.</li> <li>&gt; Consider publicizing information regarding what household hazardous waste is and times and locations for where to take it for proper disposal.</li> <li>&gt; Consider publicizing information regarding the importance of inspection and maintenance of unregulated smaller underground storage tanks (i.e. home heating oil tanks) as well as the assistance available through the NDEP Petroleum Fund.</li> <li>&gt; Consider publicizing information regarding proper lawn care to prevent over watering and overuse of fertilizers and pesticides and the connection of their actions to water quality</li> <li>&gt; Consider publicizing the potential problems associated with illegal dumping.</li> </ul> | <p>Churchill County<br/>Public Water Systems</p> <p>One time &amp; trigger when property ownership changes</p>                    | <p>Expand existing County outreach.</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical for developing information and distribution (format, web development, outreach, etc.)</li> <li>&gt; Resource assistance needed for copies, postage, signage, etc.</li> </ul> | <p>Moderate<br/>2016-2017</p>                    |
| <p>8. School Programs:</p> <ul style="list-style-type: none"> <li>&gt; Consider coordinating with the school curriculum director, key school personnel and existing programs such as “Ag in the Classroom” for in-school education with the watershed and groundwater models.</li> </ul>   | <p>Churchill County School District</p> <p>Ag in the Classroom organizers</p> <p>One time &amp; additional training as needed</p> | <p>Expand existing programs</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for coordination and training, personnel</li> <li>&gt; Resources needed to purchase the groundwater and watershed models</li> </ul>                                | <p>Immediate<br/>2016-2017</p>                   |

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|--|--|--|---|
| <p>9. Community Events</p> <ul style="list-style-type: none"> <li>&gt; Consider participation in or coordination with other conservation groups for fairs and other community events to convey awareness of Source Water Protection, such as the Hearts O' Gold Cantaloupe Festival / Churchill County Fair; the 4<sup>th</sup> of July Celebration, and the Fallon Community Day.</li> </ul>              | <p>Churchill County</p> <p>On-going</p>                          | <p>Expand existing programs</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for coordination, training, personnel.</li> <li>&gt; Resource assistance needed for materials, copies, postage, signage, etc.</li> </ul> | <p>Moderate<br/>2018-2020</p>                     |
| <p>10. TCID customer outreach</p> <ul style="list-style-type: none"> <li>&gt; Develop information for TCID to provide to interested parties.</li> </ul>  | <p>TCID</p> <p>On-going</p>                                      | <p>Expand existing TCID program</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical for developing information</li> <li>&gt; Resource assistance needed for copies, postage, signage, etc.</li> </ul>                                      | <p>Immediate<br/>Bi-Annually and<br/>Annually</p> |
| <p><b><u>Collaboration and Planning</u></b></p> <p>11. Coordinate together with the Public Water Systems to keep the Source Water Protection Plan, related documents, and actions current including staff or operator training, and database and inventory updates as necessary.</p> <p>12. Consider incorporating annual review of the SWPP at the TCID annual water rights meeting held each spring.</p> | <p>Churchill County<br/>Public Water Systems</p> <p>On-going</p> | <p>Expand existing programs</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for coordination, training, personnel.</li> <li>&gt; Resource assistance needed for materials.</li> </ul>                                | <p>Immediate<br/>Annually</p>                     |

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|---|---|---|---|
| 13. Review and revise standards, regulations and policies to be consistent with the CSWP Plan             | Churchill County<br>Public Water Systems<br><br>One time      | Expand existing programs<br><br>Assistance Needed:<br>> Technical assistance needed for review and revisions. | Immediate<br>2016-2017                              |
| 14. Include the CSWP Plan updates in the Churchill County Mater Plan updates which occur every five years | Churchill County<br>Public Water Systems<br><br>Every 5 years | Expand existing programs<br><br>Assistance Needed:<br>> Technical assistance needed for review and revisions. | Short and Long<br>Term<br>2015, 2020,<br>2025, etc. |

**Table E-2 Actions Specific to Land within SWPAs**

| Actions Specific to Land within SWPAs   | Key Group(s)<br>On-going or<br>One Time Action?                                       | Programs to Expand or to Develop &<br>Type of Assistance Needed   | Priority &<br>Expected<br>Implementa<br>tion Year |
|---|---|---|---|
| <p><b><u>Planning / Agency Review</u></b></p> <ol style="list-style-type: none"> <li>1. Integrate the SWPA locations into the local and state planning and agency review processes such as including SWPAs in the Assessor’s database for ease of location reference.</li> <li>2. Consider requiring the following for when business or development permits are required and annual business license reviews:               <ul style="list-style-type: none"> <li>&gt; An acknowledgement by the permittee that the property is within a SWPA</li> <li>&gt; Demonstration of compliance with required state and federal permits and authorizations</li> </ul> </li> </ol>  | <p>Churchill County</p> <p>One time &amp; trigger when property ownership changes</p> | <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for scoping, coordination, and document development (standards, regulations, policies, etc.)</li> <li>&gt; Resource assistance needed for materials.</li> </ul> | <p>Immediate<br/>2016-2018</p>                    |
| <p><b><u>Maintenance / Good Housekeeping</u></b></p> <ol style="list-style-type: none"> <li>3. Consider developing strategies for stormwater quality management including pollution prevention, education and outreach, public involvement, illicit discharge identification and elimination, runoff controls, and development standards to protect source water.</li> <li>4. Consider initiating permit fees for connections to water systems to fund maintenance of stormwater catchment areas including ditches, retention ponds, or flood basins to protect source water.</li> <li>5. Consider incorporation of low impact development (LID) into public and private projects to protect source water.</li> </ol> | <p>Churchill County</p> <p>On-going</p>   | <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for material development</li> <li>&gt; Resource assistance needed for materials.</li> </ul>   | <p>Moderate<br/>2018</p>                          |



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|---|--|--|---|
| <p><b>Infrastructure</b></p> <p>6. Develop a strategy to identify un-used (orphaned) wells and to properly close (abandon) the wells.</p>   | <p>Churchill County<br/>Public Water<br/>Systems</p> <p>On-going</p> | <p>Develop this program</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for well identification and coordination for abandonment</li> <li>&gt; Resource assistance needed for materials and licensed driller</li> </ul>                  | <p>Immediate<br/>Initiated in<br/>11/2015</p>     |
| <p>7. Expand the sanitary sewer system and convert septic system to sanitary sewer</p> <p>8. Develop contingency planning for replacement wells in the event of well failure and as well as emergency planning for alternative water sources.</p> | <p>Churchill County<br/>Public Water<br/>Systems</p> <p>On-going</p> | <p>Program to expand</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for grant procurement, planning and design.</li> <li>&gt; Resource assistance needed for planning and sewer line expansion and septic system conversion.</li> </ul> | <p>Moderate<br/>2018-2026</p>                     |

**Table E-3 Specific Actions for Individual Public Water Systems**

| Specific Actions for Individual Public Water Systems   | Key Group(s)<br>On-going or<br>One Time<br>Action?                       | Programs to Expand or to Develop &<br>Type of Assistance Needed   | Priority &<br>Expected<br>Implementation<br>Year |
|--|--|---|--|
| <p><b><u>Outreach and Education</u></b></p> <ol style="list-style-type: none"> <li>1. Develop information for use by individual PWSs.</li> <li>2. Old River intends to provide information on their website and in their biannual newsletter to customers</li> <li>3. Carson River Estates intends to provide information in their e-mails to customers</li> </ol>   | <p>Churchill<br/>County<br/>Public Water<br/>Systems</p> <p>On-going</p> | <p>To be developed</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for information development</li> </ul>   | <p>Immediate<br/>Initiated in 2015</p>           |
| <p><b><u>Infrastructure</u></b></p> <ol style="list-style-type: none"> <li>4. Identify and implement wastewater infrastructure projects for areas served by septic systems</li> <li>5. Upgrade existing public wells as needed and consider a public/private partnership for wellhead improvements including well head security, well seals, capping, protection from flooding, etc.</li> <li>6. Assist with abandonment of inactive wells</li> <li>7. Consider completing GIS mapping of location and condition for water and sewer infrastructure</li> </ol> | <p>Churchill<br/>County<br/>Public Water<br/>Systems</p> <p>On-going</p> | <p>Program to expand</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for collecting data, updating GIS databases for compatibility with other agencies, project design and contracting, and coordinating funding for infrastructure projects (ER, PER, grant applications, etc.)</li> <li>&gt; Resource assistance needed for one time security or sanitary upgrades (fencing, posting etc.)</li> </ul> | <p>Moderate<br/>2018-2026</p>                    |

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|--|--|--|--|
| <p>8. Facilitate coordination between individual water systems and the Nevada Rural Water Association</p> <p>9. Provide technical assistance with applications for grants and loans to accomplish Source Water Protection related actions.</p>   | <p>Public Water Systems</p> <p>As needed</p>       | <p>Program to expand</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for coordination and writing.</li> <li>&gt; Resource assistance needed for grant match</li> </ul>   | <p>Immediate 2016</p>                            |
| <p>10. Wildes Manor: Explore funding opportunities and technical assistance for drilling a deeper replacement well.</p> <p>11. Carson River Estates: Abandon inactive well.</p>  | <p>Public Water Systems</p> <p>One time</p>        | <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for site evaluation, project design / contracting, and coordinating funding for infrastructure projects (ER, PER, grant applications).</li> <li>&gt; Resource assistance for well improvements and abandonment.</li> </ul> | <p>Immediate 2016</p>                            |
| <p><b>Planning</b></p> <p>12. Develop strategy to assist small water systems with plans for water source alternatives and contingencies, such as, public water system connections, replacement or backup wells, or jointly operated systems.</p> | <p>Public Water Systems</p> <p>As needed</p>       | <p>Program to expand</p> <p>Assistance Needed:</p> <ul style="list-style-type: none"> <li>&gt; Technical assistance needed for coordination and writing.</li> </ul>  | <p>Immediate 2016</p>                            |

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