

# Appendix D

## Meeting Notes



# Appendix D

## Meeting Notes

Storey County & Public Water System  
2023 Public Participation and Support Letters



## TRI General Improvement District Board of Trustees Staff Report

**Meeting Date:** August 3, 2023 **Agenda Item No.** 7

**Prepared by:** Shari Whalen, P.E., CPM **Legal Review:** Debbie Leonard, Esq.

**Title:**

Presentation, Discussion and Possible Action to Request TRIGID Participation in the State of Nevada Integrated Source Water Protection Program (ISWPP), a Voluntary Program to Prevent the Pollution of Drinking Water Sources

**Fiscal Impact:**

None

**Recommended Motion:**

I move to approve the letter of request for TRIGID participation in the State of Nevada ISWPP Program and to authorize the President of the Board of Trustees to sign the request letter on behalf of TRIGID

**Staff Summary:**

TRIGID has been provided an opportunity to take advantage of a Nevada Division of Environmental Protection (NDEP) program to help develop an Integrated Source Water Protection Plan (ISWPP). ISWPP is a comprehensive, voluntary approach designed to help local governments and communities develop and implement a plan that protects their drinking water supplies with an emphasis on groundwater resources. Through NDEP, ISWPP helps communities protect their drinking water.

NDEP encourages, motivates and supports local source water protection activities; manages, shares and integrates source water protection information; develops federal, state and local source water protection partnerships; and integrates and implements source water protection at the state level. NDEP has contracted with a technical service provider, Resource Concepts, Inc. (RCI), to assist in every aspect of source water protection planning and implementation for public water systems and community stakeholders should they choose to participate in the planning process.

With the assistance of RCI, TRIGID, its customers, and other stakeholders will identify sensitive drinking water protection areas and activities that could contaminate water sources in these areas. TRIGID, its customers, and stakeholders can then set source water protection goals, develop strategies to prevent drinking water contamination, and identify resource needs to implement a source water protection plan.

**Attachments:**

ISWPP Fact Sheet and TRIGID Letter of Request



---

**TRI General Improvement District**

1705 Peru Drive, #104  
McCarran, Nevada 89437  
775-636-6126

August 3, 2023

Mr. Brendon Grant, PE  
Integrated Source Water Protection Program  
Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, Nevada 89701-5249

RE: Participation in the Integrated Source Water Protection Program

Dear Mr. Grant,

Pursuant to the action taken by the TRI General Improvement District Board of Trustees at its regular meeting on August 3, 2023, TRI General Improvement District hereby requests participation in the State of Nevada Integrated Source Water Protection Program (ISWPP).

The Board of Trustees considers the quality of drinking water sources to be a critical consideration for our customers. We understand the Nevada Division of Environmental Protection (NDEP), Bureau of Safe Drinking Water, administers the ISWPP for the purpose of providing technical assistance to public water systems and communities throughout Nevada for drinking water quality protection and preservation.

The Board supports its staff's participation in developing a community source water protection plan. We will provide a liaison to facilitate District involvement and work with NDEP, its contracted technical assistance provider, local customers and stakeholders toward successful completion of this plan.

Sincerely,



Julian "Jay" Carmona,  
President, TRIGID Board of Trustees



---

---

# CANYON GENERAL IMPROVEMENT DISTRICT

---

---

800 Peri Ranch Rd., Suite 103, Sparks, NV 89434

Phone 342-2850

Fax 342-2851

---

---

November 30, 2023

Mr. Brendon Grant. PE  
Integrated Source Water Protection Program  
Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, NV.

RE: Participation in the Integrated Source Water Protection Program

Dear Mr. Grant;


Pursuant to the action taken by the Canyon General Improvement District (CGID) Board of Trustees at its regular meeting on November 21, 2023, CGID would like to review any proposed consolidated Storey County Integrated Source Water Protection Program at a future meeting before approval.

The CGID Board supports its staff to work with Resource Concepts Inc. (RCI) Jill Sutherland, Storey County, and any other entities involved on this project to see if will be feasible for the CGID.

Sincerely,

Dave Hart,  
Chairman of the Board,  
Canyon General Improvement District

Cc: Jill Sutherland, P.E., RCI

	<h2 style="margin: 0;">Board of Storey County Commissioners</h2> <h3 style="margin: 0;">Agenda Action Report</h3>	
<b>Meeting date: 12/19/2023 10:00 AM -                  BOCC Meeting</b>	<b>Estimate of Time Required: 5</b>	
<b>Agenda Item Type: Discussion/Possible Action</b>		

- **Title:** A Request for Storey County to participate in the State of Nevada Integrated Source Water Protection Program (ISWPP), a voluntary program to prevent the pollution of drinking water sources.

- **Recommended motion:** In accordance with the recommendation by staff, I [Commissioner], hereby move to approve the letter of request for Storey County to participate in the State of Nevada Integrated Source Water Protection Program.

- **Prepared by:** Kathy Canfield

**Department:**                      **Contact Number:** 7758471144

- **Staff Summary:** See staff report and letter

- **Supporting Materials:** See attached

- **Fiscal Impact:** None

- **Legal review required:** False

- **Reviewed by:**

\_\_\_\_\_ Department Head

**Department Name:**

\_\_\_\_\_ County Manager

**Other Agency Review:** \_\_\_\_\_

- **Board Action:**

<input type="checkbox"/> Approved	<input type="checkbox"/> Approved with Modification
<input type="checkbox"/> Denied	<input type="checkbox"/> Continued

## STOREY COUNTY PLANNING DEPARTMENT

Storey County Courthouse  
26 South B Street, PO Box 176, Virginia City, NV 89440 Phone (775)  
847-1144 – Fax (775) 847-0949  
planning@storeycounty.org



---

**To:** Storey County Board of County Commissioners

**From:** Storey County Planning Department

**Meeting Date:** December 19, 2023

**Meeting Location:** Storey County Courthouse, 26 S. B Street, Virginia City, Storey County, Nevada, via Zoom

**Staff Contact:** Kathy Canfield

**Request:** Approval for Storey County to participate in the State of Nevada Integrated Source Water Protection Program (ISWPP), a voluntary program to prevent the pollution of drinking water sources.

### 1. Background & Analysis:

Storey County, and the public water systems located within the County, have been provided an opportunity to take advantage of a Nevada Division of Environmental Protection (NDEP) program to help develop an Integrated Source Water Protection Plan (ISWPP). ISWPP is a comprehensive, voluntary approach designed to help local governments and communities develop and implement a plan that protects their drinking water supplies with an emphasis on groundwater resources. Through NDEP, ISWPP helps communities protect their drinking water.

NDEP encourages, motivates and supports local source water protection activities; manages, shares and integrates source water protection information; develops federal, state and local source water protection partnerships; and integrates and implements source water protection at the state level. NDEP has contracted with a technical service provider, Resource Concepts, Inc. (RCI), to assist in every aspect of source water protection planning and implementation for public water systems and community stakeholders should they choose to participate in the planning process.

With the assistance of RCI, and other stakeholders, Storey County will set source water protection goals, identify sensitive drinking water protection areas or activities that could contaminate water sources, and then develop strategies to prevent drinking water contamination.

Both TRI-GID and Canyon GID are participating with NDEP in the development of a plan for their jurisdictions and have identified Storey County as being an integral part of their plan development. Storey County anticipates the developing a voluntary plan for not only the water sources for Storey County municipal service, but that also assists TRI-GID and Canyon GID in their goals.

### 2. Recommended Motion

In accordance with the recommendation by staff, I [*Commissioner*], hereby move to approve the letter of request for Storey County to participate in the State of Nevada Integrated Source Water Protection Program.



## STOREY COUNTY COMMISSIONERS' OFFICE

Storey County Courthouse  
26 South "B" Street  
P.O. Box 176 Virginia City, Nevada 89440  
Phone (775) 847-0968 Fax (775) 847-0949  
[commissioners@storeycounty.org](mailto:commissioners@storeycounty.org)

December 19, 2023

Mr. Ethan Mason  
Integrated Source Water Protection Program  
Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, Nevada 89701-5249

RE: Participation in the Integrated Source Water Protection Program

Dear Mr. Mason:

Pursuant to the action taken by the Storey County Commissioners at its regular meeting on December 19, 2023, Storey County hereby requests participation in the State of Nevada Integrated Source Water Protection Program (ISWPP).

Storey County considers the quality of drinking water sources to be a critical consideration for our communities. We understand the Nevada Division of Environmental Protection (NDEP), Bureau of Safe Drinking Water, administers the non-regulatory ISWPP for the purpose of providing technical assistance to public water systems and communities throughout Nevada for drinking water quality protection and preservation.

The Storey County Board of County Commissioners supports participation of Storey County staff in developing a community source water protection plan. We will provide a liaison to facilitate County involvement and work with NDEP's contracted technical assistance provider and local stakeholders toward successful completion of this plan.

Sincerely,



Jay Carmona  
Chairman  
Storey County Board of County Commissioners

# Appendix D

## Meeting Notes

Storey County & Public Water System  
2024 Pubic Participation & Team Meetings



# Draft Agenda

## Source Water Protection Program

### TRI-GID Source Water Protection Planning

Date: October 13, 2023

Time: 3:00 to 4:00 p.m.

Where: Virtual Meeting on Teams

1. **Update on the CSWP Plan Process and Schedule**
2. **Discuss CSWP Plan Goals for TRI-GID**
3. **Review preliminary Potential Contaminant Source Inventory**
  - Examples of different types,
  - Discuss local criteria and concerns.
4. **Water Sources and Simulation Criteria**
5. **Schedule and Next Steps**

Next meeting scheduled for Thursday November 10, 2023, 9-10 AM.

# Draft Meeting Notes

## TRI-GID and RCI

Friday, October 13, 2023  
3:00pm-4:00pm (Pacific)  
Virtual Meeting

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Shari Whalen	775-636-6126	swhalen@tri-gid.org	TRI-GID General Manager
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss the development of a Community Source Water Protection (CSWP) Plan in Storey County.

### Discussion

#### Update on the CSWP Plan Process and Schedule

RCI gave TRI-GID an update on Planning Team (Team) members who are interested in representing Storey County, including:

- Storey County Planning Manager,
- Storey County Emergency Manager,
- Canyon GID Manager, and
- NvRWA Source Water Protection Specialist.

RCI will coordinate a Team meeting to review the CSWP Plan planning process and develop CSWP Plan Goals.

#### Discuss CSWP Plan Goals for TRI-GID

Keeping in mind that the industrial center should be friendly to industrial development, The TRI-GID provided insight into the reasons they would like to pursue a CSWP Plan, including:

- Given that there can be no real limit on development near drinking water wells, TRI-GID would like to develop best management practices (BMPs) or suggestions that both encourage development and work to protect source water,
  - What can TRI-GID suggest that industries do to protect source water?
    - BMPs, secondary containment intact and approved, and established minimum criteria.
    - RCI will look further into BMPs for industrial areas that are designed to keep the groundwater safe.
- Develop and emergency response for spills in the area that may impact groundwater.
  - How does TRI-GID get notified if there is a spill near their water sources?

#### Review Preliminary Potential Contaminant Source (PCS) Inventory

The TRI-GID gave the Group an overview of PCSs that might be a concern for drinking water, including:

- Underground Storage Tanks,
  - Chronic leaking, failure, isolated incidents.

- Commercial Wells,
  - What are the safety protocols?
  - Who runs the Environmental Health and Safety Programs?
  - How can commercial wells be involved in community source water protection?
    - Proximity to groundwater.
- Industry in close proximity to groundwater wells.
  - If there is a spill or leak, which way does the groundwater flow and are the closest water sources in danger of contamination?

### Water Sources and Simulation Criteria

RCI provided a brief overview of the Capture Zone simulation method from EPA's Wellhead Analytic Element Model (WhAEM). TRI-GID agreed that the time-of-travel capture zone simulations could be a great tool to use when working on source water protection with various industries.

### Next Steps / To Do List

Next Meeting is scheduled for November 10, 2023 from 11:30AM - 12:30PM

#### RCI:

- Schedule a Team meeting, and
- Continue to develop the PCS Inventory based on comments and concerns for TRI-GID review on November 10, 2023.

#### TRI-GID:

- Send RCI the signed letter for NDEP requesting technical assistance.
- Continue to think about Source Water Protection goals.



# DRAFT Agenda

## Source Water Protection Program

### Source Water Protection Program

### Planning Team Meeting #1

Date: November 28, 2023

Time: 10 to Noon

Where: In person – near Canyon and TRI GIDs final location TBD

- 1. Welcome & Introductions**
- 2. Brainstorm Source Water Protection Goals**
- 3. Public Water Systems in Storey County**  
Review drinking water sources  
Existing Wellhead Protection Plans
- 4. Potential Sources of Contaminants**  
Review types  
Preliminary mapping & DWMaps <https://geopub.epa.gov/dwwidgetapp/>
- 5. Revisit Goals**
- 6. Schedule and Next Steps**

# Draft Meeting Notes

## TRI-GID, Storey County, NDEP, NvRWA, and RCI

Wednesday, November 28, 2023

10:00am-11:00am (Pacific)

In-Person Meeting at TRI-GID

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
<b>Kathy Canfield</b>	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
<b>Jason Wierzbicki</b>	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
<b>Mitch Andreini</b>	775-342-2850	canyongid@att.net	General Manager, Canyon GID
<b>Shari Whalen</b>	775-636-6126	swhalen@tri-gid.org	General Manager, TRI-GID
<b>Christopher Berkey</b>	702-540-6107	christopherb@nvrwa.org	Source Water Protection Specialist, Nevada Rural Water Assoc. (NvRWA)
<b>Ethan Mason</b>	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
<b>Alison Cramer</b>	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
<b>Jill Sutherland</b>	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss the development of a Community Source Water Protection (CSWP) Plan in Storey County.

### Discussion

#### 1. Welcome & Introductions

The meeting began with an introduction from each Group member, their affiliation, and their role in source water protection.

#### 2. Integrated Source Water Protection Program

RCI gave an overview of Nevada’s Integrated Source Water Protection Program (ISWPP); a voluntary program to empower communities to develop and implement a local Community Source Water Protection Plan (CSWP Plan) to protect their sources of drinking water from human activities that could cause contamination. See attached PowerPoint for additional details.

The ISWPP seeks approval from stakeholders (County Commission, City Council, public water systems, etc.) for participation in the technical assistance program:

- At the start, a Letter of Support indicating a desire to participate in the CSWP Plan development.
- At the finish, approval or adoption of this local CSWP Plan developed (non-regulatory).

Upon local approval, the ISWPP will endorse the plan, which also makes technical assistance available from the ISWPP to support implementation of the Action Plan.

Current status and upcoming Letters of Support:

- TRI-GID Board of Trustees has approved a letter of support, dated August 3, 2023.
- Canyon GID staff presented to their Board of Trustees in mid-November. Letter of Support is anticipated in early December.
- Storey County anticipates requesting support for ISWPP participation at the Board of Commissioners meeting in December.

TRI-GID, Canyon GID, and Storey County staff agreed that to move forward with successful CSWP Plan development, and achievable action plan projects, it is important to have the support of Storey County. The group brainstormed about source water protection in their community; ideas including:

- Storey County is a partner in TRI-GID and Canyon GID's goals to preserve and protect their ground and surface water supplies. Planning, emergency services and public works coordinate with partners throughout the County.
- Canyon GID works closely with Storey County, as their service boundary extends beyond Lockwood.
  - The aquifer where they source water extends beyond areas under their jurisdiction for land use.
  - There's a need for public awareness about drinking water sources and to manage contaminants and (business and the general public).
- Storey County operates one public water system that relies on surface water supplies (Marlette Lake), in which they have no control over protection at the source.
  - The water system was constructed in 1873 and Storey County is replacing parts of the pipeline.
- Storey County currently has goals and policies in the Master Plan that safeguard wellheads, and building the CSWP Plan around those Goals for TRI-GID and Canyon GID will be important for Storey County support, adoption, and implementation of the CSWP Plan.
  - Only Storey County has zoning and land use authority in and around wellheads.
  - The TRI Development Agreement is important to consider in source water protection planning.
- TRI-GID is interested in working with the industries they serve to develop best management practices (BMPs), emergency protocols, spill controls, and/or operating requirements to protect source water.
- Storey County has a large number of residences with domestic wells and individual sewage disposal systems (ISDSs) and is interested in expanding source water protection education into these communities.
  - Storey County is interested in promoting county-wide source water protection - flyers, social media, public outreach, etc. (no outreach coordinator or GIS specialist on staff).
  - The group agreed that source water protection education for wellhead protection, septic care and maintenance, and potential contamination for the general public supports source water protection for the public water systems.

### 3. Public Water Systems in Storey County

The Storey County staff, TRI-GID staff, and Canyon GID staff gave a review of their water systems. The group discussed potential future water sources.

- Marlett Lake Water System falls under Storey County jurisdiction from the east side of I-580 at Lakeview to Virginia City.
  - Water is transferred from Marlette Lake, into Five-Mile reservoir, and then into a storage tank in Virginia City.
  - The group agreed that RCI should reach out to the State of Nevada, Marlette Lake Water System operator and invite him to join the Planning Team (Team).
- The Group agreed that RCI should reach out to the additional water systems in USA Parkway to introduce source water protection and invite them to participate on the Team, including:
  - Asia Union Electronic Chemicals, Reno.

- Connected to TRI-GID but still have an active well listed in Nevada’s Drinking Water Watch.
- EP Minerals LLC Clark.
  - Future plans to connect to TRI-GID, and industrial well will stay in service.
- Mars Petcare US, Inc.
- The inactive public water system, “Mustang Ranch” is in an area that may need future water service.
  - A portion of the Mustang Ranch area is served by TRI-GID.
  - Canyon GID would need to expand their service connections to accommodate new development.
  - Storey County will have the final say relative to new developments.
  - Source water protection strategies outlined in the CSWP Plan may be pertinent for the area.
  - RCI will research the well locations for the inactive public water system for Mustang Ranch for the Team to review.
  - Canyon GID has expanded their service area toward Mustang Road, and from Rainbow Bend to Fulcrum.
  - Canyon GID has wells along Peri Ranch they don’t currently use.
- The inactive public water system, TRW Inc. VSSI Division (TRW), is not anticipated to come online in the near future.
  - Canyon GID has a service line that extends to the landfill behind Canyon Way. It does not reach the property where TRW was located.

#### 4. Existing Plans

RCI ran through several goals and objectives from existing local plans that are pertinent to source water protection. See attached PowerPoint for details. RCI will send out the existing Canyon GID Wellhead Protection Plan for review. Additional existing plans include the emergency response plans required by the State for public water systems. The group agreed that the CSWP Plan goals and strategies should be integrated, support, and work to implement the goals and objectives that exist within Storey County’s current planning framework.

#### Next Steps / To Do List

- Next Meeting is scheduled for January 10, 2023, from 12:00PM - 2:30PM at TRI-GID

#### RCI:

- Continue to develop CSWP Plan Sections for Team review.
- Send the Group well locations for Mustang Ranch water system.
- Reach out to the additional water systems in USA Parkway.
- Reach out to the State of Nevada Marlette Lake Water System Operator.
- Send the existing Canyon GID Wellhead Protection Plan for review.
- Set up a OneDrive for the CSWP Plan Team.

#### Group:

- Send NDEP the signed support letter from Canyon GID requesting participation in the ISWPP.
- Storey County Board of Commissioners presentation in December. Reach out to RCI for any materials or with questions.

Nevada  
**Integrated Source Water**  
Protection Program  
<https://ndep.nv.gov/water/source-water-protection>

**NDEP**

**RCI**  
Resource Concepts Inc.  
Contractor for the Nevada Integrated Source Water Protection Program

1

### What is the Integrated Source Water Protection Program?

ISWPP is *voluntary* approach... to empower communities to develop and implement a local plan to protect their sources of drinking water

Your community protecting your drinking water.

2

**NDEP ISWPP GOAL:**

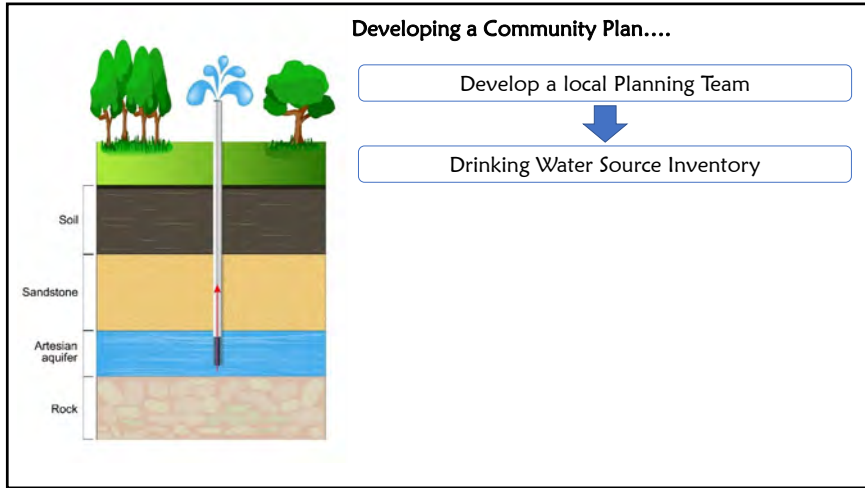
Voluntary, Locally-Driven, Community Source Water Protection Plans for all Public Water Systems in the State.

3

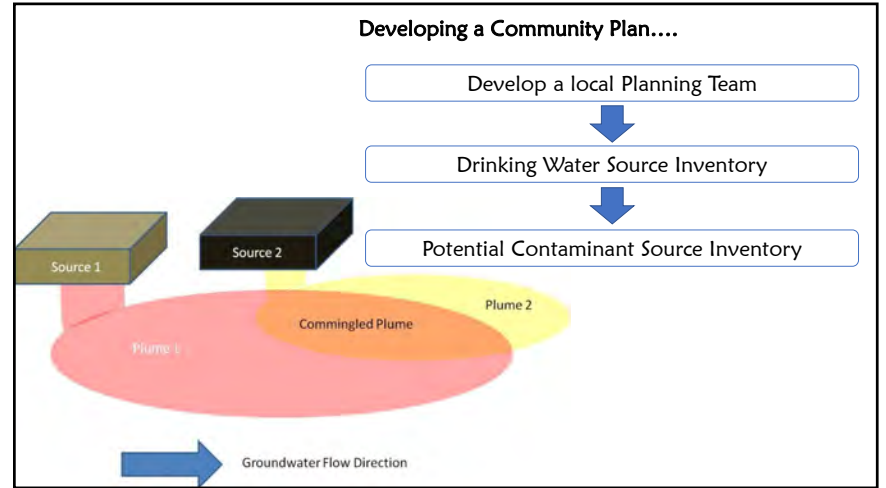
### Developing a Community Plan....

Develop a local Planning Team

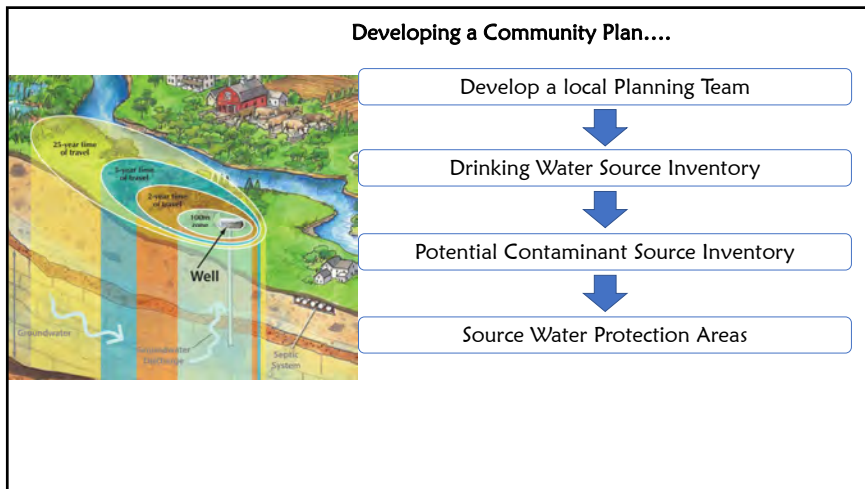
4



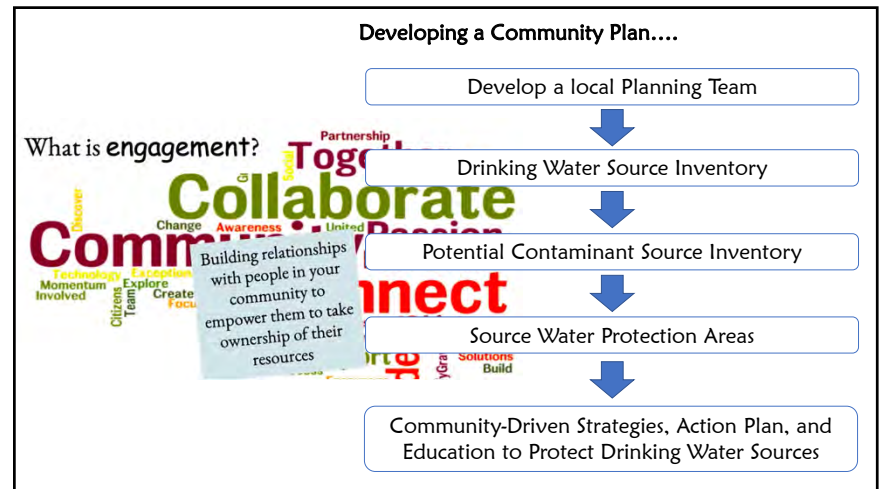
5



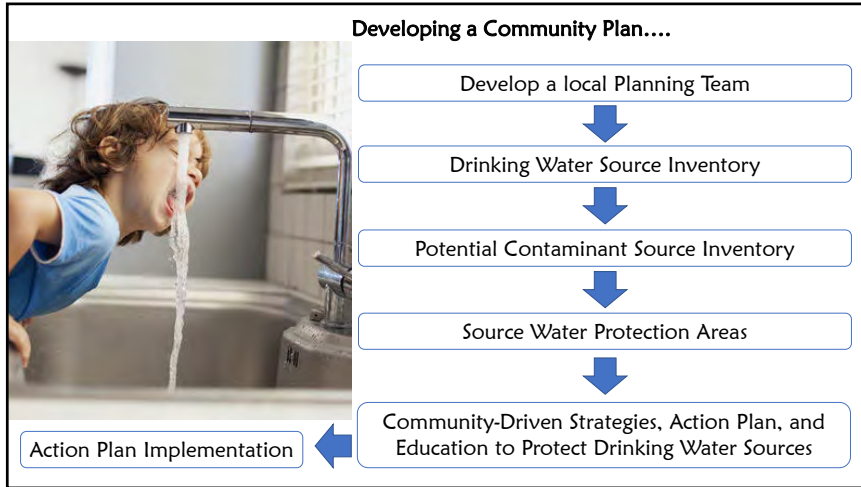
6



7



8



9

**How Many PWSs are in Storey County?**

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0005056	CANYON GID	C	A	STOREY	GW	Well: 2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS PETCARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW intake
NV0000913	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well
NV0000227	LOCKWOOD COMMUNITY CORPORATION	C	I	STOREY	GW	3 Well
NV0004069	MUSTANG RANCH	NC	I	STOREY	GW	Well: 1 Active 1 inactive
NV0005064	NOT USED	NC	I	STOREY	GW	1 Active Well
NV0000930	TRW INC VSSI DIVISION	NTNC	I	STOREY	GW	1 Active Well

10

**Existing Plans that Protect Source Water in Storey County**

**Storey County Master Plan**

Chapter 3, Land Use

**Goal 2: Create and Maintain livable and sustainable communities**

**Objective 5: To ensure safe and sustainable water resources for each community and natural ecosystem in the county.**

11

**Existing Plans that Protect Source Water in Storey County**

**Storey County Master Plan**

Chapter 3, Land Use

**Goal 2: Create and Maintain livable and sustainable communities**

**Objective 5: To ensure safe and sustainable water resources for each community and natural ecosystem in the county.**

Chapter 4, Public Lands

Policy 15-3:

**Support a coordinated effort to protect wellhead protection areas and municipal watersheds from undue degradation through proactive zoning and development controls, pursuant to Storey County ordinances.**

12

Existing Plans that Protect Source Water in Storey County

**Storey County Master Plan**

Chapter 3, Land Use

**Goal 2: Create and Maintain livable and sustainable communities**

**Objective 5: To ensure safe and sustainable water resources for each community and natural ecosystem in the county.**

Chapter 4, Public Lands

Policy 15-3:

**Support a coordinated effort to protect wellhead protection areas and municipal watersheds from undue degradation through proactive zoning and development controls, pursuant to Storey County ordinances.**

Chapter 10, Water and Natural Resources

**Goal 6: Protect the quality of present and future water resources.**

13

Existing Plans that Protect Source Water in Storey County

**Storey County Hazard Mitigation Plan  
 Flood and Wildfire**

“Exposed soils erode quickly and enhance siltation of rivers and streams, thereby increasing flood potential, harming aquatic life, and degrading water quality.”

14

Existing Plans that Protect Source Water in Storey County

**Storey County Hazard Mitigation Plan  
 Flood and Wildfire**

“Exposed soils erode quickly and enhance siltation of rivers and streams, thereby increasing flood potential, harming aquatic life, and degrading water quality.”

**Goal 4: Reduce the possibility of damage and losses due to flood and flash flood.**

❖ **Protect and enhance existing water conveyance structures, storage, and treatment facilities to reduce impact from flood.**

**Goal 6: Reduce the threat to life, new and existing property and infrastructure, and natural resources due to catastrophic wildfires.**

15

Existing Plans that Protect Source Water in Storey County

**Canyon GID Wellhead Protection Plan**

GOALS	IMPLEMENTATION STRATEGIES
1 Provide a single reference and guide for protecting drinking water resources	A Develop a WHPP Team that includes interested community members
2 Identify and evaluate threats to drinking water resources	B Delineate WHPAs and inventory potential contamination sources
3 Provide management tools to address potential sources of contamination	C Identify the best management strategies for each potential contaminant source
4 Provide ongoing protection for current and future drinking water resources	D Maintain an active record of activities that affect the WHPP
5 Provide documentation to support proposed monitoring waivers	E The program will involve the community through public activities, information, and education regarding resource protection
6 Define protection criteria and possible locations for new wells	F The program will identify resources to address future contamination events with a contingency plan
7 Provide documentation that guides and supports land use decisions regarding the WHPAs and future well sites	G Update the WHPP on a regular basis

16

What are the benefits of a Community Source Water Protection Plan?

1. Protect public health

17

What are the benefits of a Community Source Water Protection Plan?

1. Protect public health
2. Implementation of the Storey County Master Plan

18

What are the benefits of a Community Source Water Protection Plan?

1. Protect public health
2. Implementation of the Storey County Master Plan
3. Source sustainability = Economic development

19

What are the benefits of a Community Source Water Protection Plan?

1. Protect public health
2. Implementation of the Storey County Master Plan
3. Source sustainability = Economic development
4. Bring Storey County Water Quality Objectives together

20

### What are the benefits of a Community Source Water Protection Plan?

1. Protect public health
2. Implementation of the Storey County Master Plan
3. Source sustainability = Economic development
4. Source sustainability = Economic development
5. Bring Storey County Water Quality Objectives together

21

### What are the benefits of a Community Source Water Protection Plan?

1. Protect public health
2. Implementation of the Storey County Master Plan
3. Source sustainability = Economic development
4. Source sustainability = Economic development
5. Bring Storey County Water Quality Objectives together
6. Complements the upcoming Water Master Plan

22

### What Can ISWPP Do for YOU??

- Education and Outreach



23

### What Can ISWPP Do for YOU??

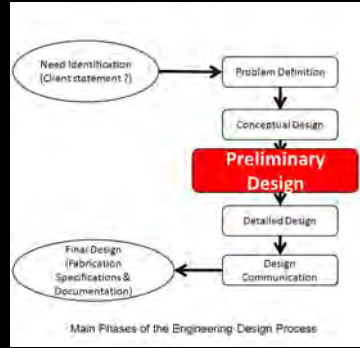
- Education and Outreach
- Technical or Financial Assistance and Implement Control Measures:
  - Fencing around Wellheads,
  - BMPs.



24

### What Can ISWPP Do for YOU??

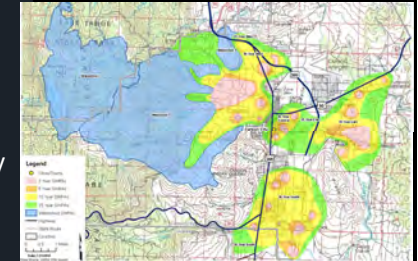
- Education and Outreach
- Technical or Financial Assistance and Implement Control Measures:
  - Fencing around Wellheads,
  - BMPs.
- PER development for Non-regulatory projects:
  - Testing for emerging contaminants,
  - New Well siting.



25

### What Can ISWPP Do for YOU??

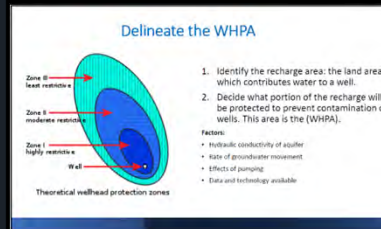
- Education and Outreach
- Technical or Financial Assistance and Implement Control Measures:
  - Fencing around Wellheads,
  - BMPs.
- PER development for Non-regulatory projects:
  - Testing for emerging contaminants,
  - New Well siting.
- GIS Mapping Assistance



26

### What Can ISWPP Do for YOU??

- Education and Outreach
- Technical or Financial Assistance and Implement Control Measures:
  - Fencing around Wellheads,
  - BMPs.
- PER development for Non-regulatory projects:
  - Testing for emerging contaminants,
  - New Well siting.
- GIS Mapping Assistance
- Conduct Assessments and Model Groundwater Sources



27

“It is important to take advantage of the knowledge and expertise that exists within your community to design a plan that will best meet the needs of your community”


What’s Your Role in the Community?

28

**NEXT STEPS.....**

*Board Approvals:*

- Storey County
- Canyon GID



A cartoon illustration of a board meeting. Several men in suits are seated around a table, all with their hands raised in approval. A sign on the wall reads "QUIET PLEASE BOARD MEETING IN PROGRESS". A man at the head of the table says, "It's settled. We put out a press release saying we can't remember what we decided." The cartoon is signed "Nicholson 25 April 09".

29

**NEXT STEPS.....**

*Additional Team Members?*




A meme image showing a dog and a person. The text reads "THE KEY TO SUCCESS: TEAMWORK".

30

**NEXT STEPS.....**

*In-Person Team Meeting*



A meme image featuring two men. One man is wearing a pink bathrobe, and the other is eating from a green bowl. The text reads "WHEN MEETINGS ARE NO LONGER VIRTUAL".

31



# Agenda

## Source Water Protection Program

### TRI-GID Source Water Protection Planning

Date: January 5, 2024

Time: 9:00AM to 10:00AM

Where: Virtual Meeting on Teams

**1. Review the Draft PCS Inventory Format**

**2. Update on the Draft Well Worksheets**

**3. Discuss Recycled Water as Source Water**

- How many facilities in USA Parkway plan to use Recycled Water?
- Which Facilities have Pre-Treatment Permits with TRI-GID?
- Tell us how it all works!

**4. Schedule and Next Steps**

Storey County Team meeting scheduled for Wednesday,  
January 10, 12PM-2:30PM.

TRI-GID Offices

## Draft Meeting Notes

### TRI-GID, RCI

Friday, January 5, 2024  
9:00am-10:00am (Pacific)  
Virtual Meeting

#### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Shari Whalen	775-636-6126	swhalen@tri-gid.org	TRI-GID General Manager
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

#### Purpose & Overview

The purpose of this meeting was to discuss the development of a Community Source Water Protection (CSWP) Plan for public water systems in Storey County.

#### Discussion

##### Review the Potential Contaminant Source (PCS) Inventory Format

TRI-GID reviewed the Draft PCS Inventory and agreed on the current format. TRI-GID provided information regarding future needs and desired outcomes of the PCS inventory, including:

- Including an inventory of hazardous chemicals stored on site throughout USA Parkway.
  - Storey County Emergency Manager (EM) maintains a chemical list.
  - RCI will reach out to discuss the inventory with Storey County EM.
  - RCI will plan to attend the January 10, 2024 Local Emergency Planning Committee meeting to introduce source water protection and discuss the committee's view on risks to groundwater.
    - Which chemical storage facilities pose the greatest risk to groundwater?
  - TRI-GID would like to be in direct communication with Emergency Management in the event that a spill occurs.
- TRI-GID would like to build a GIS inventory that can be updated as new industries move into the area.
  - DOWL manages the TRI-GID GIS.
    - RCI will reach out to DOWL in coordination with TRI-GID for a GIS meeting.
  - Collaboration with Storey County on regulations and GIS inventory is vital.
  - Linking the spreadsheet to the GIS Inventory points would be useful.
  - GIS and spreadsheet inventory of PCSs will serve to help TRI-GID assess sites that need a discharge permit.
- Asia Union Electronic Chemical Corp. (AUECC) is currently the only site with a TRI-GID discharge permit.
  - AUECC was annexed into the TRI-GID sewer but not the water.

- A past chemical spill at AUECC did not result in groundwater impacts.
- TRI-GID agreed that shipping and receiving facilities may not be a high risk to groundwater.
- TESLA could be a great resource to discuss emergency management protocols.
  - TRI-GID Well 6 is located on the TESLA site.
  - TRI-GID will reach out for a meeting.
- TRI-GID is concerned about pollution on the Truckee River, and how that may interact with groundwater.
  - Issues such as garbage, vagrancy, and homelessness are a concern.
  - TRI-GID agreed that adding collaboration with Washoe County regarding issues upstream could be a great action project.
  - Similar projects were built into the Washoe County Source Water Protection and Watershed Plan.
  - RCI will draft Truckee River Action Plan projects and send to TRI-GID for review.

### Update on Draft Well Worksheets

TRI-GID reviewed the Draft Well Worksheet and discussed source water protection area (SWPA) goals with RCI. The group agreed on the following:

- The SWPAs should be focused on groundwater within USA Parkway.
  - TRI-GI is not interested in expanding SWPAs to include the watershed.
  - Truckee River water quality issues will require collaboration outside of Storey County and should be addressed in the Action Plan.
  - RCI will simulate some Time-of-Travel capture zones and draft some Fixed Radius SWPAs for TRI-GID and EM review.
- SWPAs should be delineated so they're useful for TRI-GID and the surrounding industries.
  - Management boundaries that promote coordination with industries in close proximity of the well locations.
  - Developing a checklist for an inspector to use while reviewing industries within a SWPA would be a useful action project.

### Discuss Recycled Water as Source Water

TRI-GID does not want to include recycled water as source water in the 2024 Community Source Water Protection (CSWP) Plan for Public Water Systems in Storey County. The group discussed and agreed to:

- Characterize the groundwater sources, as the recycled water project is not commissioned yet.
- Add a placeholder for recycled water in the CSWP Plan to revisit during the CSWP Plan update.

## Next Steps / To Do List

Next Team Meeting is scheduled for January 10, 2024 from 12:00PM - 2:30PM at TRI-GID offices.

Next Virtual Tri-GID SWP Meeting is scheduled for February 2, 2024 from 9:00AM – 10:00AM.

### RCI:

- Reach out to Storey County EM to discuss the chemical inventory.
- Attend the January 10, 2024, Local Emergency Planning Committee meeting to introduce source water protection and discuss the committee's view on risks to groundwater.
- Reach out to DOWL in coordination with TRI-GID for a GIS meeting.
- Draft Truckee River Action Plan projects for TRI-GID to review.
- Simulate Time-of-Travel capture zones and draft Fixed Radius SWPAs for TRI-GID and EM review.

### TRI-GID

- Reach out to TESLA for an emergency operating protocol meeting.
- Continue to think about Source Water Protection goals.

## Storey County Local Emergency Planning Committee (LEPC)

**DATE:** Wednesday, January 10, 2024      **TIME:** 10:00 a.m.      **LOCATION:** Storey County  
Tahoe Reno Industrial Center Complex: 1705 Peru Drive, McCarran  
-OR-

**ZOOM:** <https://us04web.zoom.us/j/79613872491?pwd=bRSdjmUFVVG2VLZuv4JEOsWk7XzNHNx.1>

Meeting ID: 796 1387 2491  
Passcode: 7QVtzi

### NOTES

**Please Note:** The Storey County Local Emergency Planning Committee may 1) take agenda items out of order; 2) combine two or more items for consideration; or 3) remove an item from the agenda or delay discussion related to an item at any time.

1. **CALL TO ORDER** at 10:00 by Adam Wilson
2. **ROUNDTABLE INTRODUCTIONS**
3. **PUBLIC COMMENT:** Panasonic EM: Roads during extreme weather

Jason W. (PW) - when weather comes in we have no control, mother nature does as it wishes. NDOT staffing is very low – 3 plow drivers for the I80 corridor, 1 between here and Hwy 50. Storey County is staged ready to go, when traffic is stopped on 80, plows can't get through. Additional consideration – is it one issue, what are the external factors, public meetings. NDOT and Storey have separate issues. These potent storms come as they please, snow amounts are unknow, very little will make a difference.

David Young (Panasonic) – Are there road blocks to the major players on Electric Ave to kick in on Salt truck/ Plow to help with the road conditions?

Jason W. (PW): Can not due it – County owned and maintained.

David Young – When does it become private property?

Jason W. (PW) - 720 feet passed the road.

TESLA – just passed the entrance.

4. **DISCUSSION/POSSIBLE ACTION:** Approval of October 2023 Meeting Minutes by S. Houghton, 2<sup>nd</sup> Dana Kern; all in favor, none opposed.
5. **DISCUSSION ONLY: 2024 Training Opportunities**

Adam Wilson – completed Integrate Preparedness Plan for County – cover all training and exercise. Email Adam and he will send out PDF. Focus mass casualty events. Running a mass shooting tabletop; August a functional exercise to test lesson learned.  
2026 HAZMAT tabletop – focus on TRI, later do functional exercise. Please participate.  
Regional training exercise – all region – LEPC will be a big part of the exercise – start planning at the end of 2024.  
Belfor – Disaster response – have case studies on many industries – happy to present those – what has happened in those industries, walk you through that training, no cost.  
Panasonic – some things in play, will be reaching out.  
A. Wilson – let him know he can participate.
6. **DISCUSSION ONLY: Review of Grants Received by Storey County Local Emergency Planning Committee.**

A. Wilson - No new ones – looking at next year for SO and FD – will have more direction at the next meeting.

7. **DISCUSSION ONLY: Emergency Management Director’s Report from Adam Wilson.**

In addition to the IPP, this is an election year working with Clerk, looking at COOP, HAZMAT plan up for review next year, starting the review this year.

8. **DISCUSSION ONLY: Cooperating Local Emergency Planning Committee Members’ Report on Activities.**

America Battery – October 10 operation started, phase 1 is beginning. Emergency response, environment permits completed.

Panasonic – Continuity Plan: we are working with Tesla to enhance programs in place and fill them out so they are more than surface response, holistic multi-layered. Enhancing security measures at the factory for active threat. Emergency processes basic process, evacuations how it is done the nitty gritty details – gone back to basics. Emergency plans and processes that are meaningful and understood. Multiyear training plans and strategies.

Belfor – here to be a resource.

AUECC – increase production on process, solvent processes starting up. Running a drill, coordination with Morgan for Hazmat response.

Google – Always under construction. Under review of emergency process. Once a quarter practice of drills, coordinating with Morgan.

Wal-Mart – Nothing new to report

Greg – New Rise – slow process to starting but getting really close to renewable diesel. New technology brings new issues. Get going quick, Polaris is on board and helping. Rolling strong this year

Dan Hiles – Power Plan – NV Gold mine – make power.

TESLA – more earthwork, expansion this year, semi-truck production starting this year, steel erection this year. Fire Marshall – emergency response to those electric vehicles, planning together with FD to practice emergency response - fires and extradition of electric vehicles.

Lauren Staffen (Quad PHP) – Reminder upper respiratory season; their team is completing jurisdiction risk assessment, looking at all hazards and risk and how they impact public health and healthcare system. Meeting with Quad EM, many projects moving forward.

Lara Mather – ask everyone to let them know Lara exists; she has resources to connect. Hearing 2<sup>nd</sup> hand; reach out she is available and here to help.

9. **DISCUSSION ONLY: Review any Hazardous Materials Incidents that have occurred since the last meeting of this Committee in October 2023.**

Several Reports – nothing major.

Last storm – semi on I-80, diesel spilled after slipping on ice.

Spill Reports – Adam can send them if anyone would like to see them.

10. **PUBLIC COMMENT (Discussion Only).**

Jason W. – 16 years in the county, I-80 has always been an issue, it takes one person. Several winters and we cannot make it out due to accidents. In the past they were well staffed, one person can cause an issue. Storey running 2 shifts, day and night, the park minus USA Parkway we are prepping and her for.

Young Panasonic – I-80: Is there a plan to position on those exit area, specialized equipment/ team staged. Jason – NDOT Question, federal highway. Few months they have had public outreach about what to do. A project is promising, but

Dan – American Battery – private snow removal? Tesla, internal (facilities, onsite). Any snow removal? Reno Green. Other landscape companies. Maybe Q&D, FMP(?) Family Maid.

Ethan DEPA Safe Drinking Water; Alison Cramer (contractor) – drinking water plan, 10 years, county; assist in plans for the state to protect their drinking water. Allison – hydrogeologist – tech

assistance providers – free of charge, volunteers, working with Storey County, the GIDs, Marlette Lake water system. Goal – build a county plan, by the community for the community to protect drinking water. Work with the stakeholders and build a community plan, all useful for us. Emergency planning is vital to that process, we already have plans; they capture that. If an organization has plans in place, we want to know about that and put in the plan. There could be a bit of a gap; drinking water sources, understand if there is a risk presented to know if it is drinkable. Meeting down the street at noon with lunch; know about the plan – want your operations plan listed; get in touch, Adam has contact and cards available. Thank you for attending. Years past things got derailed, we are moving forward. What would keep you involved, send an email about presentation/ training that you would like to see to keep you coming. Next meeting – April – continue to offer via zoom. Business cards are here for Adam's information.

11. **ADJOURNMENT** at 10:33 a.m.

Please note that these minutes are not verbatim and are presented in summary format. These are draft minutes and will be submitted for approval at our next LEPC meeting. Respectfully Submitted by: Stacy York

**Nondiscrimination Statement**

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.



# Agenda

## Source Water Protection (SWP) Program

### Source Water Protection Program

### SWP Team Meeting #1

Date: January 10, 2024

Time: 12 to 2:30 PM

Where: TRI-GID 440 USA Parkway, Suite 105; McCarran, Nevada  
89437

#### 1. Welcome & Introductions

- Tamales, Snacks, and Drinks

#### 2. Integrated Source Water Protection Program

- What is Source Water Protection in Nevada?
- Development Process and Participation.
  - Develop a Local Planning Team.
  - Drinking Water Source Inventory.
  - Potential Contaminant Source Inventory.
  - Source Water Protection Areas.
  - Community Driven Strategies, Action Plan, and Education.

#### 3. Team Brainstorm – Your Source Water Protection Goals

#### 4. Schedule and Next Steps

Storey County Pictures!

## Draft Kickoff Meeting Notes

### TRI-GID, Canyon GID, Storey County, NvRWA, US Silica, NDEP, & RCI

Wednesday, January 10, 2024

12:00pm-2:30pm (Pacific)

IN-Person Meeting at TRI-GID (One attendee joined virtually)

#### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Ozward Henke	775-636-6126	ohenke@tri-gid.org	Technical Services Manager at TRI-GID
Kathy Canfield	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Mitch Andreini	775-342-2850	canyongid@att.net	General Manager, Canyon GID
Adam Wilson	775-634-7443	awilson@storeycounty.org	Emergency Management Director
Christopher Berkey	702-540-6107	christopherb@nvrwa.org	Source Water Protection Specialist, Nevada Rural Water Assoc. (NvRWA)
Connor Welsh	775-560-4119	Connor.welsh@ussilica.com	Regional Environmental Manager US Silica
Ethan Mason	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

#### Purpose & Overview

The purpose of this kickoff meeting was to:

- Bring together members of Storey County’s public water system staff, planners, emergency managers, and local representatives to develop a county-wide Community Source Water Protection (CSWP) Plan to address interests, concerns, and future planning related to source water protection.
- Provide the Local Planning Team (Team) with an overview of the Integrated Source Water Protection Program (ISWPP). Development of a fully adopted CSWP Plan will improve funding possibilities for projects that aid source water protection, offer resources to make informed decisions regarding protection of drinking water sources, and provide each community with greater leverage for future planning and development.

#### Discussion

##### 1. Welcome & Introductions

The meeting began with introductions from each Team member, who noted their roles and responsibilities within Storey County and related to Source Water Protection.

##### 2. Integrated Source Water Protection Program

The Team was provided with an overview of the ISWPP and steps toward development of a CSWP Plan.

- The ISWPP is a county-wide, voluntary, locally driven program intended to protect drinking water from potential sources of man-made contamination.
- Steps to develop a CSWP Plan include:
  1. Development of a Team,
  2. Drinking water source inventory,

3. Potential contaminant source inventory,
  4. Delineation of source water protection areas, and
  5. Team-derived management strategies, Action Plan, contingency measures, and Education and Outreach Plan.
- Final CSWP Plans are presented to local boards and the Nevada Division of Environmental Protection (NDEP) for adoption and endorsement, respectively.

CSWP Plans are developed to work within the existing planning framework for each county. Existing Plans that support source water protection in Storey County include:

- Wellhead Protection Plan for Canyon General Improvement District (December 29, 2004, rev. June 2023).
- Storey County Hazard Mitigation Plan (2015).
- Storey County Master Plan (2019) – scheduled update at end of 2024.
- Recently added: Water Resource Plan Storey County (2023).

See attached PowerPoint for further details on ISWPP and CSWP Plan development.

### 3. Team Brainstorm – Your Source Water Protection Goals

Following the program overview, the Team was asked a series of questions regarding their concerns for water quality and community needs.

The CSWP Plan Vision identified by the Team was: *To provide clean and safe drinking water for all residents and businesses.*

Additional Team ideas and comments included:

- PFAS is a growing concern for Storey County’s groundwater and surface water resources.
  - Team willing to consider coordinating with TMWA or other partners to develop a PFAS inventory or task force.
  - The Team is concerned about unregulated emerging contaminants along Truckee River corridor. Is there an early warning system for spills affecting the river?.
  - Interested in investigating use of PFAS in firefighting foams during emergency response in the Tahoe Reno Industrial Center (TRIC).
- The Team recognized that the new Lead and Copper regulations are difficult to accommodate for small water systems.
- TRI-GID might consider injection (indirect potable reuse) in the future. It would require extensive planning and investigations.
- Consider developing a CSWP Plan that can be integrated with the Washoe County CSWP Plan.
  - Incorporating similar Plan features such as a notification system for new development inside source water protection areas may be pertinent.
- Consider adding a reference to the final CSWP Plan in the 2024 Master Plan update.
  - Storey County Master Plan update may be finalized in late 2024.
- The Team was concerned about balancing and separating individual water system needs with County needs in the CSWP Plan.
  - Consider separate sections for the public water systems and the County in the Action Plan.
  - Consider separating “CSWP Plans” by water system or region.
- The Team recognized that education and outreach are important county-wide.

- The public should be informed of where public water system purview ends.
- A significant portion of Storey County community is on private well and septic - approximately half of the population. Homeowners should also be informed of proper maintenance of septic and wells to protect groundwater resources from potential contamination.
- The Team agreed that it's important to develop a CSWP Plan that can be easily read by and distributed to the residents of Storey County.

See attached Tables for Questionnaire responses.

#### 4. Schedule & Next Steps

The Team agreed to meet roughly once each month to develop the CSWP Plan. A source water protection presentation to the Storey County Planning Commission will be made virtually by RCI/NDEP at the February 15, 2024, meeting. The Team discussed presentation and adoption of the CSWP Plan at the public water system Boards, Storey County Planning Commission, and the Storey County Board of Commissioners. The Team agreed to the following tentative schedule:

- **February 2024** – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas
- **March 2024** – Strategies, Action Plan
- **April 2024** – Review Final Documents and Provide Feedback
- **May & June 2024** – Present to Boards for Adoption
- **June 2024** – Final Document with resolution letters.

#### Next Steps / To Do List

Next Team Meeting is TBD.

Next Virtual Tri-GID SWP Meeting is scheduled for February 2, 2024, from 9:00AM – 10:00AM.

#### RCI:

- Send a Doodle Poll to schedule the next Team meeting.
- Source Water Protection presentation to Storey County Planning Commission on February 15, 2024.
- Continue to build the GIS based Potential Contaminant Source Inventory for Team review.
- Draft Truckee River Action Plan projects for TRI-GID to review.
- Simulate Time-of-Travel capture zones and draft Fixed Radius SWPAs for TRI-GID, Emergency Management, and Team review.
- Draft CSWP Plan Goals and Management Strategies that support the CSWP Plan Vision for Team review.
- Draft the Action Plan and send it to Team for review and additional Action Plan project input.
- Schedule an in-person meeting with Storey County Public Works to visit Five-Mile Reservoir to discuss action projects and additional potential contaminant sources.

#### Team

- Provide input and review as requested.
- Continue to think about Source Water Protection Goals and Management Strategies.

**COMMUNITY SOURCE WATER PROTECTION FOR PUBLIC WATER SYSTEMS IN STOREY COUNTY**

<b>What are your responsibilities regarding water quality protection?</b>	
Emergency Response Planning	Critical Infrastructure Protection
To keep it clean, safe, and treatable	That existing development maintains access to basic water services
Evaluate where growth can occur – no growth with no available quality water	Testing, planning, budgets, and reporting to Canyon GID Board
TRI-GID Operating Manager for water, sewer, and reuse.	Site tours, sampling, and partnering with stakeholders for TRIC.
Technical assistance to support county-wide source water protection, implementation of source water protection plans/activities, hazard mitigation, and emergency response planning	Provide creative solutions to facilitate county-wide coordination and cooperation

<b>What are your concerns regarding water quality?</b>	
Protection	Sustainability
Runoff, PFAS, Lead & Copper	Being able to maintain water sources for existing and proposed development – quality & quantity
Future regulations	Funding and cost to treat
Industrial users and discharge	Future development, storm drains, and runoff
Emerging contaminants, PFAS, and microplastics	Recharge areas – activity management
Spills in a fractured rock aquifer	Unregulated industrial uses
Industrial facility proximity to well locations	Data security
The use Firefighting foam to put out a fire and the potential for fire flow to migrate offsite either through infiltration to groundwater or as surface water flow toward the Truckee River	Containment at industrial facilities in the event of an emergency

**COMMUNITY SOURCE WATER PROTECTION FOR PUBLIC WATER SYSTEMS IN STOREY COUNTY**

<b>If we work together to address the concerns, what are the outcomes you would like to see?</b>	
<b>Achievable Goals and Actions</b>	<b>Future Growth and Planning</b>
To provide clean and safe drinking water for all residents and businesses	Education
Voluntary compliance – buy-in from residents and businesses	Less regulatory but stressing importance and potential outcomes if not complying - impacts
A document that the public can view	Work with neighboring counties and their Plans
Shared GIS and land use	Bi-Annual meetings and shared resources
Coordination with emergency management and industrial facilities on spill response	Build source water protection into the planning framework
Recycled water is source water – direct injection	Counties working together to protect drinking water sources – groundwater and surface water don’t conform to political boundaries
Accommodate for the increase in growth	Non-regulatory approach
Increased hazard mitigation planning for industrial sites, BMP development and installation, and increased involvement from TRIC tenants	A greater understanding of how contaminants migrate within source water protection areas to further develop site-specific emergency response plans to mitigate the potential risk to existing/future source water

**COMMUNITY SOURCE WATER PROTECTION FOR PUBLIC WATER SYSTEMS IN STOREY COUNTY**

<b>What does this Plan need to be so it's useful to you?</b>	
Maps and boundaries	Responsible Parties
Covers all of each of the communities' needs	Easy for novices to understand
A document that can be provided to various entities for funding	Electronic and shareable
Easy to navigate	Updatable, dynamic, understandable for the public and decision makers
Cannot be used against the public water systems or County – soft language in the Action Plan	A document that communicates to the resident that a Plan exists to protect their water
Elevate source water protection in each community	Beneficial impacts in creating dialogue between potential contaminant source contributors and the Planning Team

Nevada Integrated Source Water Protection Program  
NDEP  
Bureau of Safe Drinking Water  
Ethan Mason  
e.mason@ndep.nv.gov  
775-687-9311  
RCI  
Contractor for the Nevada Integrated Source Water Protection Program

1

What is the Integrated Source Water Protection Program?  
ISWPP is *voluntary* approach... to empower communities to develop and implement a local plan to protect their sources of drinking water.  
Your community protecting your drinking water.

2

NDEP ISWPP GOAL:  
County-Wide, Voluntary, Locally-Driven, Community Source Water Protection Plans for all Public Water Systems in the State.

3

County and City Participation to Date

- Douglas County 2012
- White Pine County 2012
- Nye County 2013
- Lyon County 2014
- Carson City County 2015 (Updated & Adopted 2023)
- Churchill County 2016
- Humboldt County 2016 (Updated & Adopted 2023)
- Washoe County 2021
- Moapa / Overton 2021
- Mesquite / Bunkerville 2023
- Lincoln County Expected Completion Spring 2024
- Storey County In Progress

4

YOUR Community YOUR Plan  
What's YOUR Vision?  
Source Water Sustainability = Economic Development

5

Developing a Community Plan...  
Develop a local Planning Team

6

Developing a Community Plan...  
Develop a local Planning Team  
Drinking Water Source Inventory

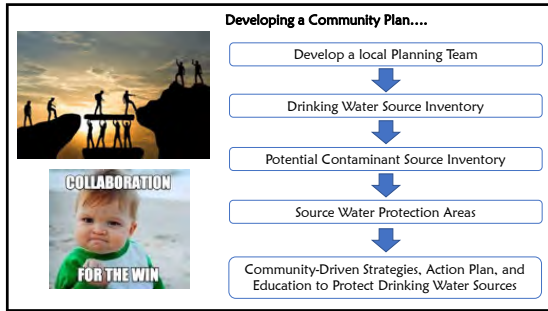
7

Developing a Community Plan...  
Develop a local Planning Team  
Drinking Water Source Inventory  
Potential Contaminant Source Inventory

8

Developing a Community Plan...  
Develop a local Planning Team  
Drinking Water Source Inventory  
Potential Contaminant Source Inventory  
Source Water Protection Areas

9



10

**Board Approvals:**

- TRI-GID
- Storey County
- Canyon GID

11

**Develop a Planning Team - Existing Plans and Practices**

DRAFT WELLHEAD PROTECTION PROGRAM  
CANYON GENERAL IMPROVEMENT DISTRICT  
December 29, 2004 Revised June 2011

**Community Source Water Protection Plan**  
For Public Water Systems in Carson City, Nevada

12

**Develop a Planning Team - Existing Plans and Practices**

**Hazard Mitigation Plan**  
Storey County  
2015

**Other Community Plans/Practices?**  
We want to capture everything you do to protect Water Quality

13

**Drinking Water Sources in Storey County**

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV00005056	CANYON GID	C	A	STOREY	GW	2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS PETCARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW intake
NV0000913	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well
NV0000227	LOCKWOOD COMMUNITY CORPORATION	C	I	STOREY	GW	3 Well
NV0004069	MUSTANG RANCH	NC	I	STOREY	GW	1 Active 1 Inactive
NV0005054	NOT USED	NC	I	STOREY	GW	1 Active Well
NV0000930	TRW INC VSSI DIVISION	NTNC	I	STOREY	GW	1 Active Well

**Community Water Systems (C)** has at least 15 service connections used by year-round residents of the area served by the water system or regularly serves at least 25 year-round residents.

**Transient Non-Community Water Systems (NC)** does not regularly serve the same persons.

**Non-Transient Non-Community Water Systems (NTNC)** regularly serves at least 25 of the same persons for more than 6 months per year.

14

**Drinking Water Sources in Storey County**

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV00005056	CANYON GID	C	A	STOREY	GW	2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS PETCARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW intake
NV0000913	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well

15

**13 Active Wells**  
**2 Future Wells**

**1 Lake**  
**1 Reservoir**  
**1 Tank**

16

**Potential Sources of Contamination**

**Current and prospective activities that have the potential to release contaminants to the environment**

17

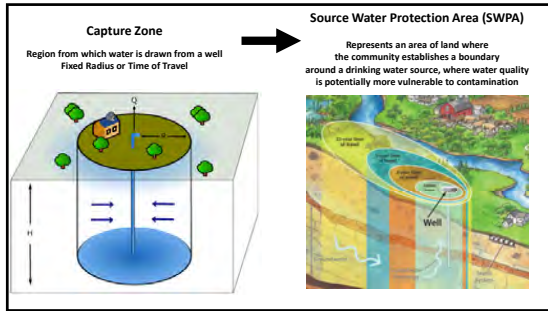
**Potential Sources of Contamination**

- Hazardous Material
- Storage Handling
- Disposal

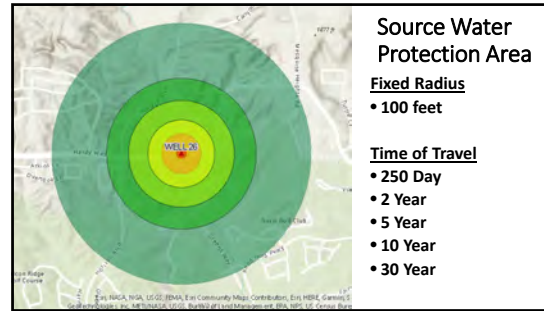
**Controls:**

- ❖ Potential for release?
- ❖ Risk to drinking water?
- ❖ Communication?

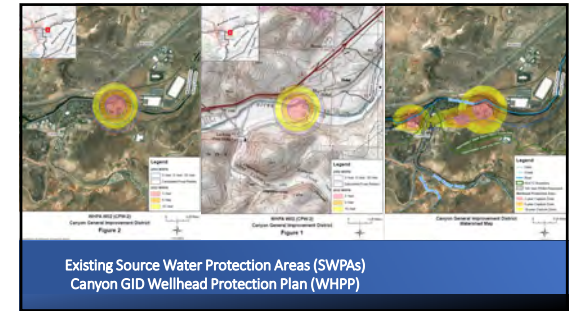
18



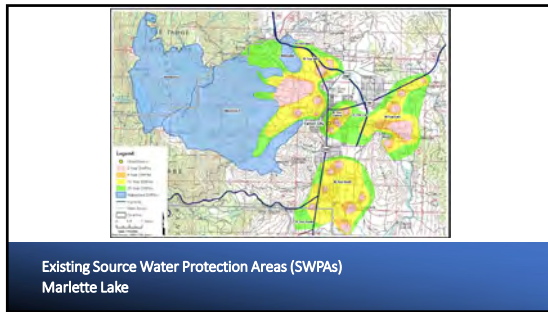
19



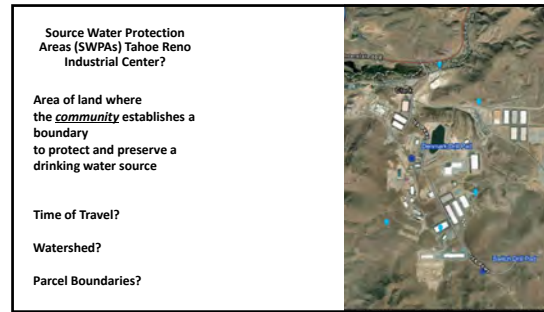
20



21



22



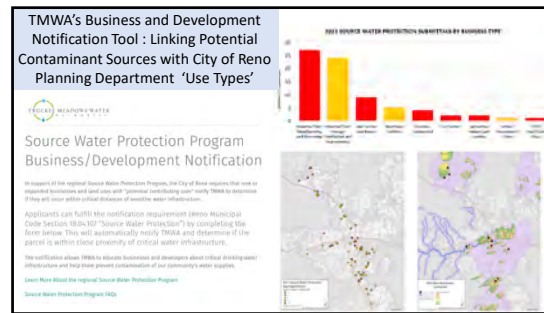
23



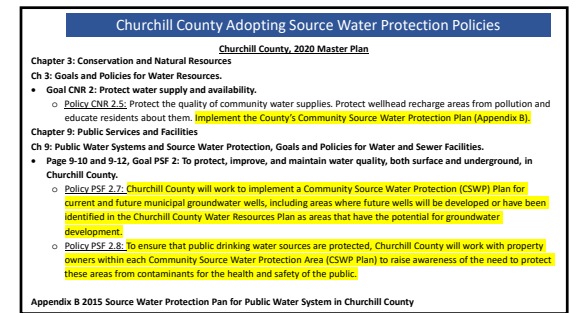
24



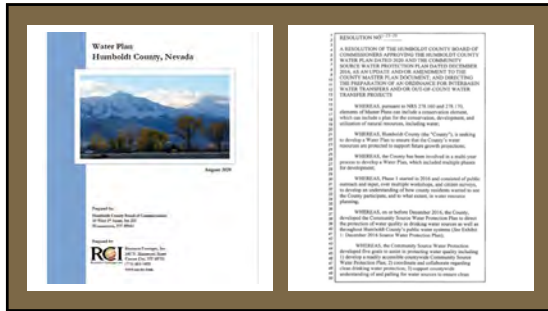
25



26



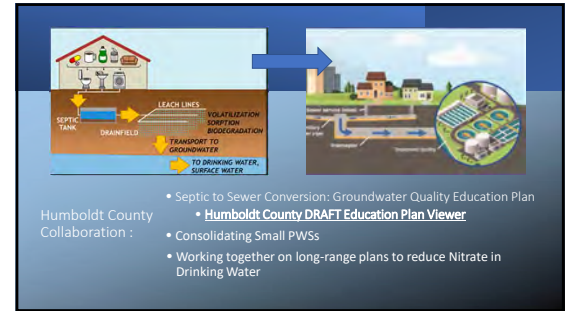
27



28



29



30



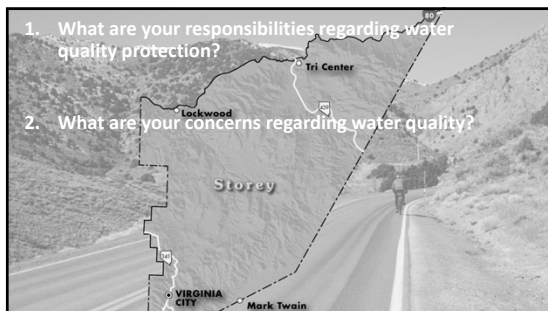
31



32



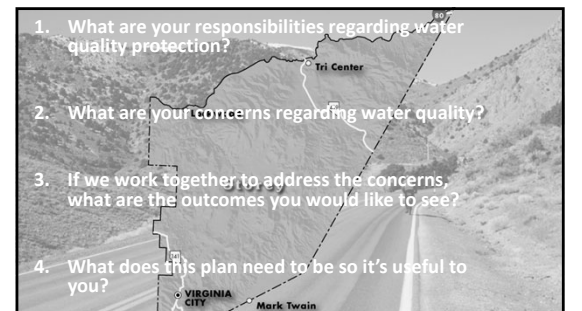
33



34




35



36


**NEXT STEPS.....**  
Additional Team Members?



**THE KEY TO SUCCESS:  
TEAMWORK**

37

**Draft Schedule**



Copyright © 2009 United Feature Syndicate, Inc.  
Reproduction in whole or in part prohibited.

**February 2024** – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas  
**March 2024** – Strategies, Action Plan  
**April 2024** – Review Final Documents and Provide Feedback  
**May 2024** – Present to Boards for Approval  
**June 2024** – Final Document

38

# Draft Meeting Notes

## Storey County Water District / RCI

Wednesday February 13, 2024

In-person Meeting at Storey County Public Works Office

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss the development of the Community Source Water Protection (CSWP) Plan for Public Water Systems in Storey County.

### Discussion

#### 1. Water System Description

Storey County Water District gave RCI a description and a tour of the water system, including:

- Five Mile Reservoir and Water Treatment Plant,
- Water Storage Tanks, and
- Waste Water Treatment Plants.

#### 2. Water System Concerns

Storey County Water District outlined their water system concerns, including:

- Vandalism at Five Mile Reservoir, and
- Vandalism at the Water Treatment Plant ponds.
- Not generally concerned with the abandoned mines throughout the area.

#### 3. Action Plan

Storey County clearly outline actions to include in the Action Plan, such as:

- Increased water system security to reduce vandalism around Five Mile Reservoir,
- Source Water Protection/Source Water Signage around water sources and storage tanks, and
- Education and Outreach for emerging contaminants and lead and copper.

### Next Steps / To Do List

Next Team Meeting is scheduled for February 29, 2024, from 1-2PM (PST).

#### RCI:

- Work on Draft source water protection areas and action plan for review.
- Share PFAS information/resources.

# Draft Meeting Notes

## Canyon GID / RCI

Wednesday February 14, 2024  
 1 – 2 PM (Pacific)  
 In-person Meeting at CGID Office

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Mitch Andreini	702-283-0296	canyongid@att.net	General Manager, Canyon GID
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to review wells, mapping of Potential Contaminant Sources (PCSs), and other topics for the development of the Community Source Water Protection (CSWP) Plan for Public Water Systems in Storey County.

### Discussion

#### 1. Hydrogeology

Review hydrogeology in existing WHPP:

- W01 is west of Long Valley Creek. Well log suggests semi-confined fractured rock Aquifer. Some recharge may come from the Truckee River. Flow constrained by geologic boundaries (creek and river canyons).
- Lockwood wellfield includes Mobile Home Park L02 and L03. Aquifer modeled as uniform flow in unconfined aquifer.
- CPW-2 (W02) is deeper and penetrates into Basalt. The report looked at both fixed radius and analytic element model as the nature of the confined, fractured rock aquifer creates more uncertainty in modeling capture zones.

#### 2. Format and Content

Discussed how to bring the 2023 Canyon GID WHPP (updated in 2023) into the CSWP Plan.

- Checked to make sure wells and PCSs are current.
- The current CGID Board expects to see an updated format and content for CGID in the Storey County CSWP Plan.
- PFAS and Emerging Contaminants are a source of concern for CGID and the community.
- Current education/outreach: newsletter in utility bill (effective), Canyon GID website is used (may consider updating and adding materials), CGID is not interested in utilizing social media.

Request a fresh look, simplified, and streamlined for their specific part of the CSWP Plan.

- Current Board expecting a fresh look and amenable to updating format and language.

- Easy to read, something that can be posted on the CGID website.
- Seamless mesh with the overall Storey County CSWP Plan document.
- Include information about what to do if PFAS is detected in the wells (GID has detections see Attached).
- The Education & Outreach Plan should also include materials on PFAS, a possible presentation to the community, where does it come from?
- If important or warranted, SWPAs could be slightly adjusted.
- Consider expanding management strategies to include Lagomarsino Canyon, Truckee River, Truckee River upstream within Washoe County.

### 3. Area around Well CP2

#### Discussed PCSs

- Some PCSs listed on the web mapper are redundant – these should be removed.
- Consider ways to address WWTP discharges in Truckee River upstream of CGID.
- Highway, railroad, and river intersect with the existing SWPA and modeled capture zones for W02, the main water supply well.
- Consider including the FedEx Distribution Center across the river into the PCS map – they have their own well.
- How fast does PFAS travel in ground and surface water?

#### Next Steps / To Do List

Next Team Meeting is scheduled for February 29, 2024, from 1-2PM (PST).

#### RCI:

- Make a hard copy of the current WHPP Plan for Canyon GID.
- Share PFAS information/resources.

#### Canyon GID

- Provide copy of PFAS detection announcement.
- Provide improvements/progress made since the adoption of the original WHPP Plan (2004).



# Agenda

## Source Water Protection (SWP) Program

### Source Water Protection Program

### Community Source Water Protection (CSWP) Plan Team Meeting #2

Date: February 14, 2024

Time: 2:00 – 3:00 PM

Where: Virtual on Teams

#### 1. Welcome & Introductions

- Data Recap and Draft CSWP Plan Outline

#### 2. Finalize CSWP Plan Vision

*You can't depend on your eyes when your imagination is out of focus.*

-Mark Twain

#### 3. Revisit and Finalize CSWP Plan Goals

*You need a plan to build a house. To build a life, you need a Goal.*

-Zig Ziglar

#### 4. Review Updated Information and Mapping

- Preliminary Capture Zone Analysis
- Potential Contaminant Source Inventory and Mapping

#### 5. Bonus: Team Brainstorm – Management Strategies

- Management strategies to protect YOUR sources of drinking water are locally driven. Get CREATIVE!
- What strategies can easily be put into action to implement YOUR Plan Vision and Goals?

#### Schedule and Next Steps

Storey County Pictures!

## Draft Meeting Notes

### TRI-GID, Canyon GID, Storey County, Mars Pet Nutrition, NDEP, & RCI

Wednesday, February 14, 2024

2:00pm-3:00pm (Pacific)

Virtual Meeting on Teams

#### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Ozward Henke	775-636-6126	ohenke@tri-gid.org	Technical Services Manager, TRI-GID
Shari Whalen	775-636-6126	swhalen@tri-gid.org	General Manager, TRI-GID
Alan Terry	775-636-6126		Senior Water Operator, TRI-GID
Kathy Canfield	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Mitch Andreini	775-342-2850	canyongid@att.net	General Manager, Canyon GID
Adam Wilson	775-634-7443	awilson@storeycounty.org	Emergency Management Director
Scott Peterson	702-283-0296	Scott.peterson@effem.com	Health, Safety, and Environmental Manager, Mars Pet Nutrition
Ethan Mason	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

#### Purpose & Overview

The purpose of this meeting was to finalize the Community Source Water Protection (CSWP) Plan Draft Outline, Vision, and Goals, and to discuss preliminary capture zone and Source Water Protection Area (SWPA) delineations for the public water systems in Storey County.

#### Discussion

##### 1. Welcome & Introductions

The meeting began with introductions from each Team member, who noted their roles and responsibilities within Storey County and related to Source Water Protection.

Based on notes from the Kickoff Meeting on January 10, 2024, RCI presented the Team with a Draft CSWP Plan Outline. The Team agreed that RCI should move forward with the outline that was presented, including:

##### Publicly Available Documents:

- CSWP Plan Main Body
- Appendix A: SWPA Maps
  - Separate SWPA Maps will be developed for each water system.
- Appendix B: Action Plan
  - Separate Action Plans will be developed for each water system.
- Appendix C: Education Plan
- Appendix D: Meeting Notes

### Documents Available upon request from the Public Water Systems:

- Appendix E: Canyon GID WHPP
- Appendix F: Storey County CSWP Plan
- Appendix G: TRI-GID WHPP
- Appendix H: Privately Owned Public Water System WHPP

The Team agreed that it is important for each water system to maintain autonomy, and that jurisdiction should be clearly outlined in the CSWP Plan. The Team agreed that CSWP Plan approval will be sought after by each water system Board prior to an approval from the County Commission.

## 2. Finalize CSWP Plan Vision

The Team agreed on a common CSWP Plan Vision:

***Ensure safe and sustainable drinking water for all residents and businesses.***

## 3. Revisit and Finalize CSWP Plan Goals

The Team reviewed the Draft Goals, and agreed to finalize three out of four Goals:

1. Protect the quality of present and future drinking water sources.
2. Preserve the quality and quantity of water sources for existing and proposed development.
3. Consider risks to drinking water sources in Emergency Planning.

The Team agreed that the verbiage in Goal Four should be changed and discussed further at the next meeting. Several options include:

- Educate/Engage the public, including the community, stakeholders, and businesses about actions to protect source water.
- Include education to water users about water education.
- Engage the public, water users, and stakeholders for source water protection education and actions.

## 4. Review Updated Information and Mapping

The Team reviewed drinking water sources in Storey County and the process to develop SWPAs. SWPAs are non-regulatory boundaries, and act as a tool to manage activities that could negatively affect water quality. Capture zones simulations in the form of 2-, 5-, 10-years are required by Nevada ISWPP and can assist in SWPA delineation. SWPA boundaries are generally informed by a combination of Time-of-Travel Capture Zone simulations, the distribution of potential contaminant sources (PCSs), and how the community decides to manage these land areas (ownership, property boundary, local jurisdiction). The Team discussed SWPAs for Storey County Water District and reviewed the current SWPAs and PCSs for Canyon GID, including:

- One Watershed SWPA was delineated around Marlette Lake in the Community Source Water Protection Plan for Public Water Systems in Carson City. The Team agreed to keep this watershed SWPA to maintain consistency.
- The Team agreed about adding two SWPAs around the surface water sources for Storey County, including:
  - One 1,100-ft SWPA around Five-Mile Reservoir.
  - One 600-ft SWPA around the Water Treatment Facility.
    - Potential risks to water quality for both SWPAs include vandalism and trash from recreation in the area.

- Strategies to reduce the risks to water quality include SWPA signage, increased security with fencing repairs and camera installation, education and outreach to residents, and collaboration with Washoe County.
- Canyon GID has SWPAs around three of their water sources, including the 2-, 5-, and 10-Year capture zones.
  - RCI mapped the PCSs from the 2004 WHPP and the 2024 desktop survey.
  - Canyon GID provided input to RCI prior to the meeting regarding discrepancies in the location of some PCSs, as well as the decision to remove some of the PCSs from 2004.
    - RCI will update the PCS inventory per Canyon GID guidance.
    - Canyon GID would like to keep the current 2-, 5-, 10-Year SWPAs.
- The Team agreed to review the Capture Zone simulations for TRI-GID at the next meeting.
  - RCI and TRI-GID has a meeting scheduled following the Team meeting to discuss general water system overview and pumping rates to enable RCI to conduct more accurate simulations.
- RCI will meet with Mars Pet Nutrition for a discussion regarding participation and commitment on Friday, February 16, 2024.

### Next Steps / To Do List

Next Team Meeting: February 29, 2024, from 1:00PM – 2:00PM.

#### RCI:

- Source Water Protection presentation to Storey County Planning Commission on February 15, 2024.
- Continue to build the GIS based Potential Contaminant Source Inventory for Team review.
- Draft some Action Plan projects for the Team to review.
- Simulate Time-of-Travel capture zones and draft Fixed Radius SWPAs for TRI-GID, Emergency Management, and Team review.
- Draft CSWP Plan Goal Four for Team discussion and review.
- Draft CSWP Plan Management Strategies that support the CSWP Plan Vision and Goals for Team review.
- Draft the Action Plan and send it to Team for review and additional Action Plan project input.

#### Team

- Provide input and review as requested.
- Continue to think about Source Water Protection Goals and Management Strategies.

Nevada Integrated Source Water Protection Program  
<https://ndep.nv.gov/water/source-water-protection>  
**NDEP**  
 Bureau of Safe Drinking Water

Ethan Mason  
[e.mason@ndep.nv.gov](mailto:e.mason@ndep.nv.gov)  
 775-687-9311

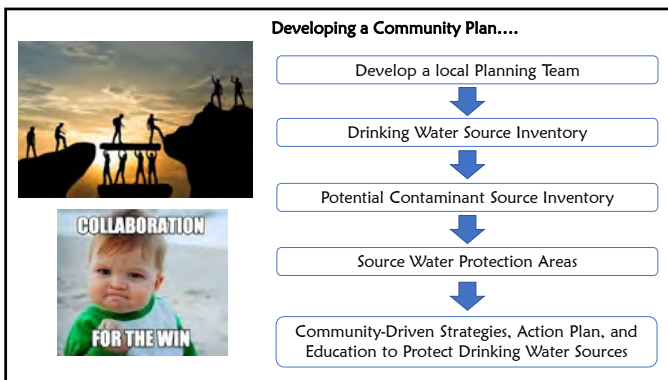
RCI  
 Jill Sotherland, PE - [jill@rci-nv.com](mailto:jill@rci-nv.com)  
 Alison Cramer - [alison@rci-nv.com](mailto:alison@rci-nv.com)  
 340 N. Minnesota Street  
 Carson City, Nevada  
 775-883-1600  
 Contractor for the Nevada Integrated Source Water Protection Program

1

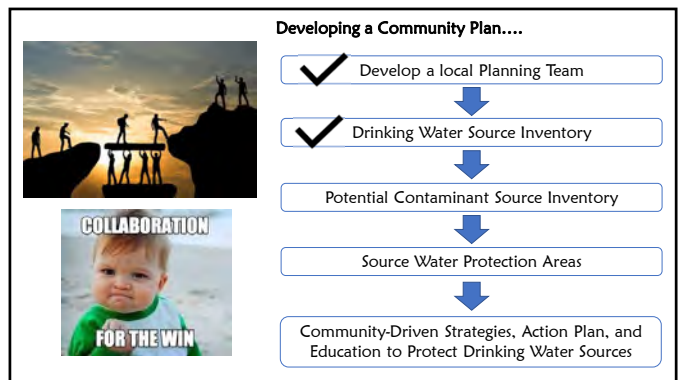
**Draft Schedule**

February 2024 – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas  
**Week of February 26 – Finalize Potential Contaminant Source Inventory & Source Water Protection Areas**  
 March 14, 2024 – Strategies, Action Plan  
 April 2024 – Review Final Documents and Provide Feedback  
 May 2024 – Present to Boards for Approval  
 June 2024 – Final Document

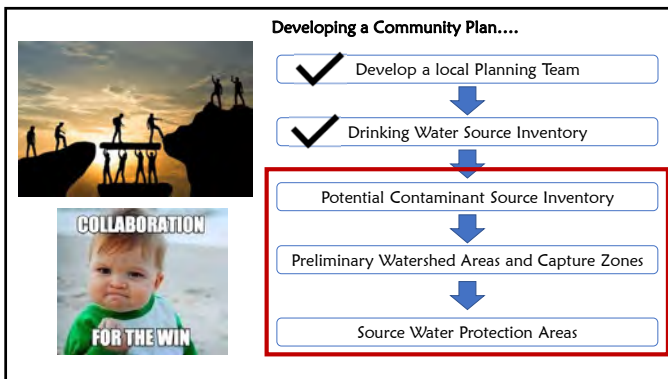
2



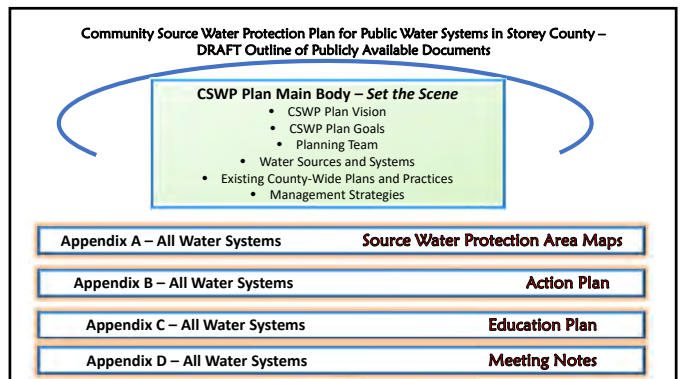
3



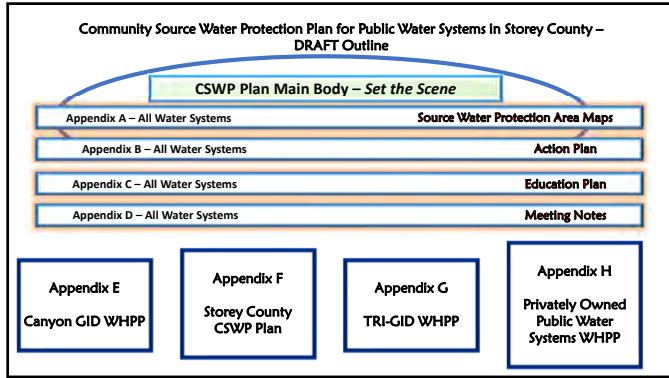
4



5



6



7

Community Source Water Protection Plan Draft Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

8

Community Source Water Protection Plan Draft Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Draft Goals:

1. *Protect the quality of present and future drinking water sources.*

9

Community Source Water Protection Plan Draft Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Draft Goals:

1. *Protect the quality of present and future drinking water sources.*
2. *Preserve the quality and quantity of water sources for existing and proposed development.*

10

Community Source Water Protection Plan Draft Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Draft Goals:

1. *Protect the quality of present and future drinking water sources.*
2. *Preserve the quality and quantity of water sources for existing and proposed development.*
3. *Consider risks to drinking water sources in Emergency Planning.*

11

Community Source Water Protection Plan Draft Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Draft Goals:

1. *Protect the quality of present and future drinking water sources.*
2. *Preserve the quality and quantity of water sources for existing and proposed development.*
3. *Consider risks to drinking water sources in Emergency Planning*
4. *Educate the public, including the community, stakeholders, and businesses about actions to protect source water.*  
**Engage**  
*Include education to water users about water education  
Negativity not welcome!  
Think before you speak!  
Separate into two – actions and general education*

12

### Drinking Water Sources in Storey County

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0005056	CANYON GID	C	A	STOREY	GW	Well: 2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS PETCARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW intake
NV0000913	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well

**Community Water Systems (C)** has at least 15 service connections used by year-round residents of the area served by the water system or regularly serves at least 25 year-round residents.

**Non-Transient Non-Community Water Systems (NTNC)** regularly serves at least 25 of the same persons for more than 6 months per year.

13

### What is a Source Water/Wellhead Protection Area?

An area of land that contributes water to the drinking water supply  
An area where man-made pollution poses a threat to a water source  
Community-established boundary to protect a water source

14

### Potential Sources of Contamination

Current and prospective activities that have the potential to release contaminants to the environment

- Hazardous Material
- Storage Handling
- Disposal
- Vandalism

• Controls:

- ❖ Potential for release?
- ❖ Risk to drinking water?
- ❖ Communication?

15

### Drinking Water Sources in Storey County

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0005056	CANYON GID	C	A	STOREY	GW	Well: 2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS PETCARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW intake
NV0000913	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well

Marlette Lake
Five Mile Reservoir
Water Treatment Plant

16

### Community Source Water Protection Plan

For Public Water Systems in Carson City, Nevada

## Marlette Lake Watershed Source Water Protection Area

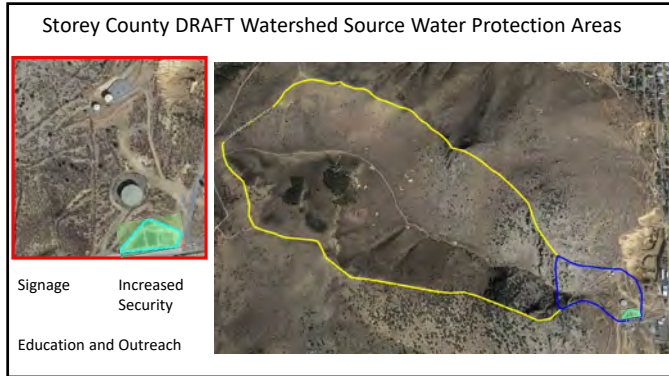
Watershed Boundary

17

### Storey County DRAFT Watershed Source Water Protection Areas

- Signage
- Increased Security
- Education and Outreach
- Fence Repairs
- Collaboration

18



19

Groundwater in Storey County

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000179	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0000505	CANYON GID	C	A	STOREY	GW	2 Active 1 Inactive
NV0000925	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000928	MARS PETECARE US INC	NTNC	A	STOREY	GW	1 Well
NV0000931	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Wells

20

Delineating Source Water/Wellhead Protection Areas

**Capture Zone**  
• Region from which water is drawn from a well

21

Delineating Source Water/Wellhead Protection Areas

**Capture Zone**  
• Region from which water is drawn from a well

- Fixed Radius (Vulnerability Assessment Report)
- Calculated Fixed Radius (Time of Travel)
- Uniform Flow Equation (Time of Travel)

22

What is an Aquifer?

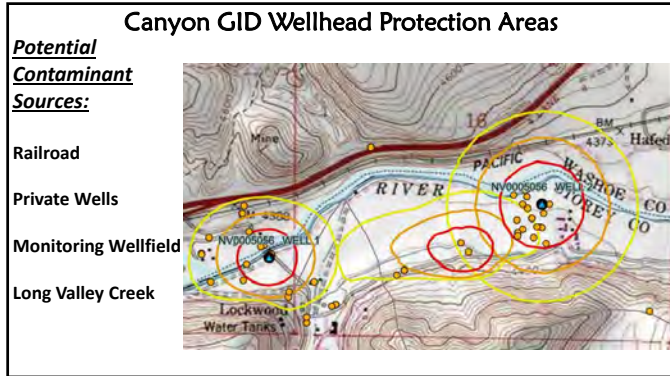
Layers and areas of rocks below the ground where all the cracks a crevices, and spaces between the rocks are full of water.

23

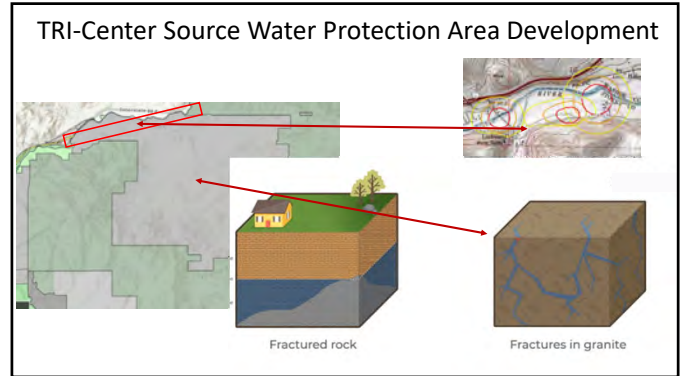
Canyon GID Wellhead Protection Areas

**Uniform Flow Equation**  
2-, 5-, 10-Year Time of Travel  
Well Pumping Rates  
Aquifer Parameters  
Groundwater Flow Direction

24



25



26

### Draft Schedule

Copyright © 2000 United Feature Syndicate, Inc.  
 Redistribution in whole or in part prohibited.

February 2024 – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas

**Week of February 26 – Finalize Potential Contaminant Source Inventory, Source Water Protection Areas**

March 2024 – Strategies, Action Plan

April 2024 – Review Final Documents and Provide Feedback

May 2024 – Present to Boards for Approval

June 2024 – Final Document

The cartoon strip shows three panels of characters in a meeting. Panel 1: A character says 'AND WE FINISHED AHEAD OF SCHEDULE.' Another asks 'QUESTION'. Panel 2: A character asks 'ARE YOU REFERRING TO THE ORIGINAL SCHEDULE OR THE EIGHTH REVISION?'. Panel 3: A character says 'SCHEDULES CAN CHANGE.' Another replies 'THAT WOULD BE CALLED A CALENDAR.'

27

# Draft Meeting Notes

## TRI-GID, RCI

Wednesday, February 14, 2024

2:00pm – 3:00pm (Pacific)

Virtual Meeting

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Shari Whalen	775-636-6126	swhalen@tri-gid.org	TRI-GID General Manager
Alan Terry	775-636-6126		Senior Water Operator, TRI-GID
Ozward Henke	775-636-6126	ohenke@tri-gid.org	Technical Services Manager, TRI-GID
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss general water system operations at TRI-GID for Community Source Water Protection (CSWP) Plan Capture Zone simulations.

### Discussion

#### 1. General Water System Overview

TRI-GID provided an overview of their water system operations and information regarding future needs and desired outcomes of the CSWP Plan, including:

- TRI-GID reviewed and updated RCI's operating pump rates for each well.
- TRI-GID provided RCI with an overview of their operational strategy, including:
  - All wells have submersible pumps.
  - Wells do not pump together 24/7.
  - Adjusted seasonally.
  - Well 3 has been offline since 2020, and is expected to come online in summer 2024.
  - In general:
    - Wells 5 and 4 are in lead lag.
    - Wells 7 and 8 are in lead lag.
    - Wells 6 and 2 are always running.
    - When Well 3 comes online, Well 1 will be the backup well.
    - Location for Well 9 moved nearby in the future – within a few hundred feet (outside Tesla Building footprint).
  - Currently it is thought that there is no correlation between pumping rates and arsenic levels.
  - Demand is currently less than system capacity.
- TRI-GID is working on several Plans, including:
  - Conservation Plan,

- Water Resource Plan, and
- Groundwater Mitigation Plan.
- TRI-GID agreed that it is important to get the CSWP Plan finalized, with annual updates.
- TRI-GID agreed that it's important to include the pertinent CSWP Plan information regarding water quality protection out to new customers.
- Planning horizon for TRI-GID extends out to 50 years.
  - System updates will likely occur every 3-5 years.
  - The Group agreed that 25-, 50-year capture zone simulations will be pertinent for their planning horizon.
- The Group agreed to add an action project to the Action Plan that includes hydrogeological investigations.
- TRI-GID is concerned about impermeable surface area discharging to the Truckee River.
- Stormwater BMPs are controlled by Storey County.
  - Collaboration between Storey County and TRI-GID on stormwater BMPs could be added to the Action Plan for Storey County and TRI-GID.
- Currently there are no LIDs and no detention basins in the TRIC.
- Potential contaminant sources (PCSs) of concern include facilities without State/Federal environmental permits (less regulatory oversight). Facilities with multiple permits have on-going environmental programs.
- The reservoir is currently lined.
  - The unlined reservoir did leak, however, there are no studies regarding infiltration.
  - Storage is for TRI-GID treated wastewater and for effluent piped in from TMWARF.
- EP Minerals has annexed land and it is anticipated they will be a customer in the future, despite having their own water system.
- NDEP is concerned about discharges to groundwater and to the Truckee River.
  - TRI-GID is currently investigating permeability and infiltration rates north of the reservoir.
  - Not a compliance issue at this point.
- Additional PCS concerns include the closed RIBs on the backside of the WWTP.
  - WWTP is not uphill of any source water at this time.
  - The Groundwater Mitigation Plan is intended to focus on the high levels of nitrates near the WWTP.
  - Induction wells downgradient of the WWTP are treated as a non-potable resource and are not included in the CSWP Plan.
    - TRI-GID is only interested in Action projects for the potable resources at this time.

### Next Steps / To Do List

Next Team Meeting is scheduled for February 29, 2024 from 1:00PM – 2:00PM (Pacific).

#### RCI:

- Reach out to Storey County EM and Planning Manager to discuss stormwater BMPs.
- Simulate Capture Zones based on updated well and water system information.
  - 2-, 5-, 10-, 25-, 50-Year.
- Draft Action Plan projects for TRI-GID to review.



# Storey County Planning Commission

## Meeting Agenda

Thursday February 15, 2024 at 6:00 p.m.  
Storey County Courthouse, District Courtroom\*  
26 South B Street, Virginia City, NV

*Jim Umbach – Chairman*  
*David Yenne – Planning Commissioner*  
*Lee Sterrett – Planning Commissioner*

*Alexia Sober- Vice Chairman*  
*Donny Gilman- Planning Commissioner*  
*Denise Victorine – Planning Commissioner*  
*Summer Pellett – Planning Commissioner*

\*Storey County Planning Commission is hosting an **in person and teleconference** meeting this month. Members of the public who wish to attend the meeting remotely, may do so by accessing the following meeting on Zoom.com. Public comment may be made by communication through zoom.

**\*Join Zoom Meeting:**      <https://us02web.zoom.us/j/88607320146>      **Meeting ID: 886 0732 0146**

Dial by your location  
+1 346 248 7799 US (Houston)  
+1 669 900 6833 US (San Jose)  
+1 253 215 8782 US  
+1 301 715 8592 US  
+1 312 626 6799 US (Chicago)  
+1 929 205 6099 US (New York)  
Meeting ID: 886 0732 0146

Find your local number: <https://zoom.us/j/88607320146>

**For additional information or supporting documents please contact the  
Storey County Planning Department at 775-847-1144.**

---

**All items include discussion and possible action to approve, modify, deny, or continue unless marked otherwise.**

- 1. Call to Order at 6:00 p.m.**
- 2. Roll Call**
- 3. Pledge of Allegiance**
- 4. Discussion/For Possible Action:** Approval of Agenda for February 15, 2024.
- 5. Discussion/For Possible Action:** Approval of Minutes for January 11, 2024.

May 23, 2024

Community Source Water Protection Plan  
for Storey County, Nevada

6. **Presentation/No Possible Action:** Presentation of Source Water Protection Program by Resource Concepts Inc.
7. **Discussion/No Possible Action:** Planning Manager Kathy Canfield will provide a summary to the ongoing Master Plan update.
8. **Discussion/No Possible Action:** Planning Manager Canfield will provide an update on the Long Valley Creek Hazard Mitigation Plan project.
9. **Discussion/No Possible Action:** Update on the Capital Improvement Plan (CIP).
10. **Discussion/For Possible Action:** Determination of next Planning Commission meeting.
11. **Discussion/For Possible Action:** Approval of Claims.
12. **Correspondence** (no action)
13. **Public Comment** (no action)
14. **Staff** (no action)
15. **Board Comments** (no action)
16. **Adjournment**

**Notes:**

- Supporting material is available to the public and may be obtained at [https://www.storeycounty.org/government/departments/clerk/agendas\\_\\_\\_minutes/planning\\_commission.php](https://www.storeycounty.org/government/departments/clerk/agendas___minutes/planning_commission.php) or the Storey County Courthouse, Planning Department, 26 South B Street, Virginia City, Nevada.
- There may be a quorum of Storey County Commissioners in attendance, but no action or discussion will be taken by the Commissioners.
- Public comment will be allowed after each item on the agenda (this comment should be limited to the item on the agenda). Public comment will also be allowed at the end of each meeting (this comment should be limited to matters not on the agenda).
- Items on the agenda may be taken out of order, the public body may combine two or more agenda items for consideration, and the public body may remove an item from the agenda or delay discussion relating to an item on the agenda at any time.
- Additional information pertaining to any item on this agenda may be requested from Lyndi Renaud, Planning Department (775-847-1144).
- Supporting material is available to the public and may be obtained at [https://www.storeycounty.org/government/departments/clerk/agendas\\_\\_\\_minutes/planning\\_commission.php](https://www.storeycounty.org/government/departments/clerk/agendas___minutes/planning_commission.php) or the Storey County Courthouse, Planning Department, 26 South B Street, Virginia City, Nevada.

**Certification of Posting**

I, Lyndi Renaud on behalf of the Storey County Planning Commission, do hereby certify that I posted, or caused to be posted, a copy of this Agenda at the following location on or before February 6, 2024: Storey County Courthouse and Storey County website at [https://www.storeycounty.org/government/departments/clerk/agendas\\_\\_\\_minutes/planning\\_commission.php](https://www.storeycounty.org/government/departments/clerk/agendas___minutes/planning_commission.php) And the Nevada State website at <https://notice.nv.gov/>. Courtesy copies of the agenda may be posted at the Storey County Community Development; Virginia City Fire Station 71; Mark Twain Community Center; Lockwood Community/Senior Center; Canyon GID; Lockwood Fire Station; Virginia City Highlands Fire Station; Virginia City Highlands Online Message Board.

By Lyndi Renaud, Secretary of the Planning Commission



# STOREY COUNTY PLANNING COMMISSION MEETING

Thursday January 11, 2024 at 6:00 p.m.  
Storey County Courthouse, District Courtroom  
26 S B Street, Virginia City, Nevada

## MEETING MINUTES

CHAIRMAN: Jim Umbach

VICE-CHAIRMAN: Alexia Sober

COMMISSIONERS:

Adrienne Baugh, Donny Gilman, Summer Pellett, Lee Sterrett, At Large (vacant)

- 
- Call to Order:** The meeting was called to order by the Chairman at 6:00 P.M.
  - Roll Call:** Jim Umbach, Summer Pellett, Lee Sterrett, Alexia Sober, Adrienne Baugh, Donny Gilman.  
**Absent:** None (At Large position Vacant)  
  
**Also Present:** Planning Manager Kathy Canfield, Brian Brown D.A.'s office, County Manager Austin Osborne, County Commissioner Jay Carmona, Justice of the Peace Eileen Herrington, and Community Development Director Pete Renaud.
  - Pledge of Allegiance:** The Chairman led the Pledge of Allegiance.
  - Discussion/For Possible Action:** Approval of Agenda for January 11, 2024.  
**Motion:** Approval of Agenda for January 11, 2024, **Action:** Approve, **Moved by** Commissioner Sober, **Seconded by** Commissioner Sterrett, **Vote:** Motion carried by unanimous vote (**summary:** Yes=6).  
  
No Public Comment.
  - Election of Chairperson** of the Planning Commission for 2024.  
**Motion:** I, Alexia Sober motion to nominate Jim Umbach to remain as Chairperson of the Planning Commission for 2024, **Action:** Approve, **Moved by** Commissioner Sober, **Seconded by** Commissioner Gilman, **Vote:** Motion carried by unanimous vote (**summary:** Yes=6).  
  
No Public Comment
  - Election of Vice-Chairperson** of the Planning Commission for 2024.  
**Motion:** I, Adrienne Baugh motion to nominate Alexia Sober to remain as Vice Chairperson of the Planning Commission for 2024, **Action:** Approve, **Moved by** Commissioner Baugh, **Seconded by** Commissioner Gilman, **Vote:** Motion carried by unanimous vote (**summary:** Yes=6).  
  
No Public Comment
  - Discussion/For Possible Action:** Approval of Minutes for November 2, 2023.

May 2024 Approval of Minutes for November 2, 2023, **Action:** Approve, **Moved by** Commissioner Sober, **Seconded by** Commissioner Sterrett, **Vote:** Motion carried by unanimous vote for Public Water Summary, Storey County, Nevada

No Public Comment

- 8. **Discussion/No Possible Action:** File no. 2023-049 Zone Map Amendment. The applicant is requesting a Zone Map Amendment to rezone two parcels of land zoned Forestry to I2 Heavy Industrial. No modifications to the existing site conditions are proposed with this zone map amendment application. The property is located west of USA Parkway at the Storey County/Lyon County boundary, Storey County, Nevada, and has Assessor’s Parcel Numbers 004-171-20 and 004-181-10.

Planning Manager Canfield summarized the request. The property owner is requesting to rezone two parcels of land from Forestry zoning to I2 Heavy Industrial zoning. APN 004-171-20 is an approximate 533.46 acre parcel and APN 004-181-10 is an approximate 997.22 acre parcel. The applicant proposes to develop future industrial land uses on both properties. This land is not subject to the Tahoe Reno Industrial Center Development Agreement; however, this land is within the established service area of the TRI-GID. The Storey County Master Plan identifies this land to transition from Forestry to Industrial zoning when desired by the property owner. This request for the zoning district change is to allow for future industrial land use development on the properties. The two properties are currently zoned Forestry. The 2016 Storey County Master Plan identifies the two properties as having a Transition from Resources to Industrial land use designation. Staff believe this is appropriate. The neighboring properties are a mixture of Heavy Industrial and Forestry zoning.

The properties are not part of the Tahoe Reno Industrial Center, however they will be served by the Tahoe Reno General Improvement District (TRIGID) for water and sewer. Staff received one letter of support for the project. It was distributed to the commissioners and posted on the Storey County website.

Commissioner Sterrett asked a question regarding processed water that was mentioned in the description the applicant submitted. Will the processed water coming to the site be consumed and used on the site.

Coury Morris representing the applicant answered that the intent would be to utilize the processed water onsite. Currently there is no way to send the water back to the TRIGID for treatment so the water will be exhausted on site.

Vice Chairman Sober commented that the request is consistent with the nature and character of the area and does not see any issue in rezoning the land to Industrial. Chairman Umbach concurred with Vice Chairman Sober.

No Public Comment

**Motion:** In accordance with the recommendation by staff, the findings of fact under Section 3.A of this report, and other findings deemed appropriate by the planning commission, and in compliance with the conditions of approval, I, Alexia Sober, recommend approval for Zone Map Amendment (File 2023-049) to rezone two parcels of land zoned Forestry to I2 Heavy Industrial. No modifications to the existing site conditions are proposed with this zone map amendment application. The property is located west of USA Parkway at the Storey County/Lyon County boundary, Storey County, Nevada, and has Assessor’s Parcel Numbers 004-171-20 and 004-181-10.,

**Action:** Approve, **Moved by** Commissioner Sober, **Seconded by** Commissioner Gilman,

Planning Manager Canfield read the findings of fact into the record.

- (1) The proposed Zone Map Amendment complies with all Federal, Nevada State, and Storey County regulations;
- (2) The proposed Zone Map Amendment will not impose substantial adverse impacts or safety hazards on the abutting properties;
- (3) The conditions of approval of the Zone Map Amendment require compliance with the applicable codes;

May 23, 2024(4) The conditions of approval of the Zone Map Amendment to conform with the Protection Plan requirements in Chapter 17.35 I2 Heavy Industrial Zone or Chapter 17.05.220 Zone map amendments and zone text amendments;

- (5) The uses allowed by the new zone do not appear to cause substantial adverse impacts to the uses allowed in abutting zones;
- (6) The proposed Zone Map Amendment is in substantial compliance with and supports the goals, objectives and recommendations of the 2016 Storey County Master Plan;
- (7) The proposed Zone Map Amendment will provide for land uses compatible with existing adjacent land uses and will not have detrimental impacts to other properties in the vicinity;
- (8) The proposed Zone Map Amendment will not cause uses that will negatively impact existing or planned public services or facilities and will not adversely impact the public health, safety and welfare;
- (9) The proposed Zone Map Amendment will not create any non-conforming conditions, such as non-conforming setbacks distances or minimum parcel area and width requirements.

No Public Comment

**Vote:** Motion carried by unanimous vote (**summary:** Yes=6).

9. **Discussion/For Possible Action:** Determination of next planning commission meeting.

**Motion:** Next planning commission meeting to be held on February 15, 2024 at 6:00 P.M. at the Storey County Courthouse, District Courtroom in person and via Zoom, **Action:** Approve, **Moved by** Commissioner Sober, **Seconded by** Commissioner Sober, **Vote:** Motion carried by unanimous vote (**summary:** Yes=6).

No Public Comment

10. **Discussion/For Possible Action:** Approval of claims – None

11. **Correspondence (No Action)** – None other than the correspondence mentioned in support of the Zone Map Amendment request.

12. **Public Comment (No Action)** – None

13. **Staff (No Action)** – Planning Manager Canfield told the commission about the Long Valley Creek Hazard Mitigation Plan community meeting scheduled for January 25<sup>th</sup> at 5:30 pm at the Rainbow Bend Clubhouse. This meeting will be a follow up to the meeting held in March 2023. The consultant working on this project has completed a draft and will present findings, recommendations and potential mitigation measures to help the community with the flooding issues. Notices of the meeting will be mailed out to all property owners in the Canyon GID service area.

Canfield mentioned that the At Large position on the planning commission is still vacant but staff have completed interviews with three applicants and the board will be making an appointment soon.

County Manager Austin Osborne told the commission that staff is working on scheduling dates for Master Plan update town hall meetings in Lockwood and Mark Twain.

14. **Board Comments (No Action)** – The commissioners welcomed new planning commissioner Donny Gilman. Mr. Gilman gave a brief summary of his background. Mr. Gilman stated that he has been in the county for over 20 years and has opened and closed businesses. Gilman said he has been involved in much of the development that has occurred in the county and looks forward to working with the planning commission.

Planning Manager Canfield also told the board that Chief Deputy D.A. Keith Loomis retired and introduced Brian Brown, legal counsel taking over for Mr. Loomis. Mr. Brown stated that he has been practicing law for 30 years. He ran the Litigation Department at the Washoe County D.A.'s for 7 years and was also a partner in a statewide law firm where he practiced civil litigation for about 23 years. Brown said he has been working with D.A. Langer on a part time basis for 18 months and since Mr. Loomis retired he is working around 30 hours a week for Storey County and looks forward to working with everyone.

15. **Adjournment (No Action)** - The meeting was adjourned at 6:25 p.m.

*To obtain a recording of the meeting please email [planning@storeycounty.org](mailto:planning@storeycounty.org) or call the office at 775.847.1144*

Respectfully Submitted, By Lyndi Renaud

# Draft Meeting Notes

## MARS Pet Nutrition, RCI

Friday, February 16, 2024  
 9:00AM – 10:00AM (Pacific)  
 Virtual Meeting

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Scott Peterson	702-283-0296	Scott.peterson@effem.com	Health, Safety, and Environmental Manager, Mars Pet Nutrition
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss expectations for participating in a Community Source Water Protection (CSWP) Plan for Public Water Systems in Storey County, and water quality concerns for Mars Pet Nutrition.

### Discussion

#### 1. General Discussion and Water Quality Concerns

RCI gave a brief overview of what participation is expected of water systems to participate in Nevada’s Integrated Source Water Protection Program (ISWPP), including:

- ISWPP is a voluntary, non-regulatory program, and comes at no charge to the water systems.
  - Seek Board participation and approval.
  - Attendance of 5-6 Team meetings.
  - Provide pertinent water system and emergency operating plan information.
  - Review and comments of documents.

Mars Pet Nutrition (Mars) provided valuable input regarding their water system, treatment operations, and water quality concerns, including:

- Currently operate using one potable well.
- Point of Use filtration for process, sinks, and drinking water.
  - Filtration system was recently updated.
  - On-site WWTP.
    - Discharge to a lined pond,
    - Permit for land application of wastewater,
    - Sample water quality on all property corners (Monitoring wells),
    - Self-sustained operation.
    - Managed by SPB.
- Water quality issues include arsenic, similar to other public water systems in the area.
- Facility was built in the early 90s.
- Mars is responsible for containing their waste and hazardous materials.

- Mars has Industrial SWPP and Spill Prevention Control and Countermeasure (SPCC Plan).
- Extensive emergency operating procedures (EOPs).
- Mars agreed that collaboration and communication with TRI-GID on EOPs is pertinent to protect water quality.
- Collaboration can be added as an action project to the Action Plan for TRI-GID and Mars.
- Mars has a helipad for landing to assist in wildfire emergencies.
- Water Quality concerns include:
  - Newly constructed facilities upgradient of water supply sources,
  - Power Facility to the East,
  - Air emissions from other industrial facilities at TRIC, and
  - Vagrancy and homeless population on the Truckee River.
- Mars is focused on sustainability and regeneration.
  - Mars plans to reduce non-renewable consumption annually and is on track to be carbon neutral by 2050.
  - Solar array for heat located at site.
- Mars will try to find a copy of their Well log and/or water rights permit number for capture zone simulation purposes.
  - The Well pump was recently replaced.
  - They understand the Well is 300-feet deep with the pump set at 100-feet.
  - There might be a pump test they could share with RCI.
- Mars will need to their discuss level of participation with legal counsel.
- RCI will send examples of CSWP and Wellhead Protection (WHP) Plans from other communities.

### Next Steps / To Do List

Next Team Meeting is scheduled for February 29, 2024 from 1:00PM – 2:00PM (Pacific).

#### RCI:

- Send examples of CSWP and WHP Plans.
- Draft Action Plan projects for review.

#### MARS:

- Discuss level of participation with legal counsel.
- Send RCI Well log and/or water rights permit number, if available.
- Share well pump test with RCI, if available.



# Agenda

## Source Water Protection (SWP) Program

### Source Water Protection Program

### Community Source Water Protection (CSWP) Plan Team Meeting #3

Date: February 29, 2024

Time: 1:00 – 2:00 PM

Where: Virtual on Teams

**1. Welcome**

**2. Revisit and Finalize CSWP Plan Goals**

*You need a plan to build a house. To build a life, you need a Goal.*

-Zig Ziglar

**3. Review Updated Information and Mapping**

- Preliminary Capture Zone Analysis for TRI-GID
- Potential Contaminant Source Inventory and Mapping

**4. Team Brainstorm – Management Strategies**

- Management strategies to protect YOUR sources of drinking water are locally driven. Get CREATIVE!
- What strategies can easily be put into action to implement YOUR Plan Vision and Goals?

**5. Schedule and Next Steps**

Storey County Pictures!

# Draft Meeting Notes

## TRI-GID, Canyon GID, Storey County, U.S. Silica, NDEP, & RCI

Thursday, February 29, 2024

1:00pm-2:00pm (Pacific)

Virtual Meeting on Teams

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Shari Whalen	775-636-6126	swhalen@tri-gid.org	General Manager, TRI-GID
Kathy Canfield	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Mitch Andreini	775-342-2850	canyongid@att.net	General Manager, Canyon GID
Adam Wilson	775-634-7443	awilson@storeycounty.org	Emergency Management Director
Connor Welsh	775-560-4119	Connor.welsh@ussilica.com	Regional Environmental Manager US Silica
Ethan Mason	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to finalize the Community Source Water Protection (CSWP) Plan Goals, and to discuss capture zone and Source Water Protection Area (SWPA) delineations for the public water systems in Storey County.

### Discussion

#### 1. Welcome & Introductions

The Team reviewed and agreed to the Draft CSWP Plan Outline, including:

#### The following section would be publicly available documents:

- CSWP Plan Main Body
- Appendix A: SWPA Maps
  - Separate SWPA Maps will be developed for each water system.
- Appendix B: Action Plan
  - Separate Action Plans will be developed for each water system.
- Appendix C: Education Plan
- Appendix D: Meeting Notes

#### The following sections would be documents available upon request from the Public Water Systems, because they show sensitive information like well locations:

- Appendix E: Canyon GID WHPP
- Appendix F: Storey County CSWP Plan
- Appendix G: TRI-GID WHPP
- Appendix H: Privately Owned Public Water System WHPP

The Team agreed that it is important for each water system to maintain autonomy, and that jurisdiction should be clearly outlined in the CSWP Plan. The Team agreed that CSWP Plan approval will be sought after by each water system Board, and as schedules allow prior to an approval from the Board of County Commissioners.

## 2. Revisit and Finalize CSWP Plan Goals

The Team reviewed the Draft Goals, and agreed to finalize Goal 4, highlighted below:

1. Protect the quality of present and future drinking water sources.
2. Preserve the quality and quantity of water sources for existing and proposed development.
3. Consider risks to drinking water sources in Emergency Planning.
4. Engage water users, stakeholders, and businesses about source water protection and participation.

## 3. Review Updated Information and Mapping

The Team reviewed and finalized the SWPAs for Storey County, and discussed and agreed to several potential contaminant source (PCS) inventory questions, including:

- Remove the NDOT yard from the SWPA around the water treatment facility.
- Maintain the desktop PCS GIS database and add an action to the Action Plan which includes building and refining a PCS GIS database for Storey County.
- Management Strategies for Storey County SWPAs include:
  - Education and Outreach, and
  - Interagency Collaboration.

The Team reviewed the draft capture zone simulations for TRI-GID, and agreed to:

- Include the rail system in the final SWPA, and
- Re-simulate the capture zones which are presently offset from the Truckee River.
- Management strategies could include:
  - Coordinate with Storey County Emergency Management and Union Pacific Railroad Company on Spill Response.

The Team provided valuable information regarding future development in the Tahoe Reno Industrial Center (TRIC), including:

- Development is a possibility in any area throughout TRIC that is zoned for industrial, regardless of slope.
  - 9,000-acres is currently considered developable; however, it is likely that estimate will increase.
  - Both Switch and Tesla purchased large swaths of land to ensure privacy and isolation.
- Well 1 and Well 2 are located near the oldest developments in TRIC and are potentially at the greatest risk.
- Asia Union and Trivium both have discharge permits with TRI-GID.
- The Team agreed to review and consider multiple approaches to delineate “capture zones”: the fixed radius, the WhAEM model, and watershed areas of interest for SWPAs.

## Next Steps / To Do List

Next Team Meeting: March 14, from 2:00PM – 3:00PM.

### RCI:

- Continue to build the GIS based Potential Contaminant Source Inventory for Team review.
- Draft separate Action Plans for Team review.
- Simulate Time-of-Travel capture zones and draft Fixed Radius SWPAs for TRI-GID, Emergency Management, and Team review.
- Draft CSWP Plan Management Strategies that support the CSWP Plan Vision and Goals for Team review.

### Team

- Provide input and review as requested.
- Continue to think about Source Water Protection County-Wide Management Strategies.



https://ndep.nv.gov/water/source-water-protection



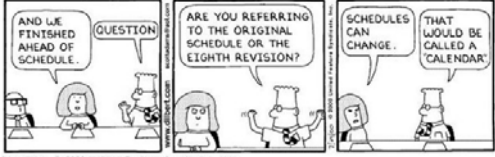
Bureau of Safe Drinking Water

Ethan Mason  
e.mason@ndep.nv.gov  
775-687-9311



Contractor for the Nevada Integrated Source Water Protection Program

**Draft Schedule**



February 2024 – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas

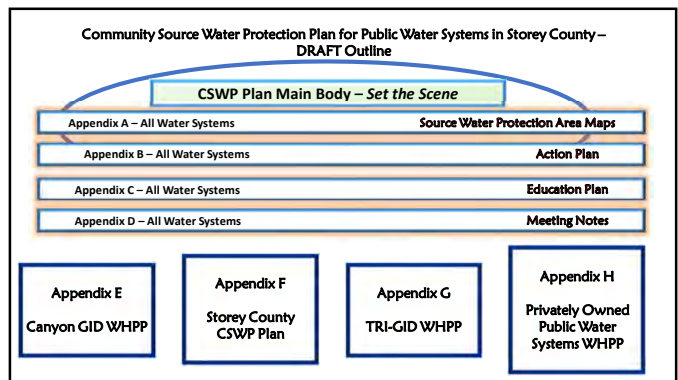
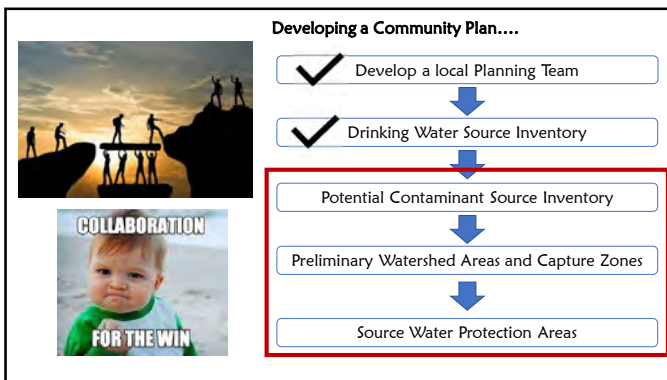
Week of February 26 – Finalize Source Water Protection Areas

March 14, 2024 – Strategies, Action Plan – **Schedule End of March Meeting?**

April 2024 – Review Final Documents and Provide Feedback – **Schedule April Meetings**

May 2024 – Present to Boards for Approval

June 2024 – Final Document



Community Source Water Protection Plan Vision:

*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Vision:

*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Goals:

1. *Protect the quality of present and future drinking water sources.*

Community Source Water Protection Plan Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Goals:

1. Protect the quality of present and future drinking water sources.
2. Preserve the quality and quantity of water sources for existing and proposed development.

Community Source Water Protection Plan Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan Goals:

1. Protect the quality of present and future drinking water sources.
2. Preserve the quality and quantity of water sources for existing and proposed development.
3. Consider risks to drinking water sources in Emergency Planning.

Community Source Water Protection Plan Vision:  
*Ensure safe and sustainable drinking water for all residents and businesses.*

Community Source Water Protection Plan **Goal Four:**

Engage the public, including the community, stakeholders, and businesses about actions to protect source water.

Educate the public, water users, and stakeholders for source water protection and taking action.

Provide water users, stakeholders, and businesses about source water protection education and means for action.

**Engage water users, stakeholders, and businesses about source water protection and participation.**

### What is a Source Water/Wellhead Protection Area?

An area of land that contributes water to the drinking water supply  
An area where man-made pollution poses a threat to a water source  
Community-established boundary to protect a water source

### Potential Sources of Contamination

Current and prospective activities that have the potential to release contaminants to the environment

- Hazardous Material
- Storage Handling
- Disposal
- Vandalism

- Controls:
  - ❖ Potential for release?
  - ❖ Risk to drinking water?
  - ❖ Communication?


### Drinking Water Sources in Storey County

Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water-Type	Number of Sources
NV0000879	ASIA UNION ELECTRONIC CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0000505	CANYON GID	C	A	STOREY	GW	2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000878	MARS BET CARE LIS, INC	NTNC	A	STOREY	GW	1 Well
NV0000240	STOREY COUNTY WATER DISTRICT	C	A	STOREY	SW	1 SW Intake
NV0000913	IRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Well

**Community Source Water Protection Plan**  
For Public Water Systems in Carson City, Nevada


**Marlette Lake Watershed Source Water Protection Area**

Watershed Boundary



**Storey County DRAFT Source Water Protection Areas & Potential Contaminant Sources**

- 1,100 Foot SWPA around Five-Mile Reservoir
- One Potential Contaminant Source
  - Increased Security/Reduce Vandalism
  - Fence Repairs
- Management Strategies
  - Education and Outreach
  - Interagency Collaboration



**Storey County DRAFT Source Water Protection Areas –**

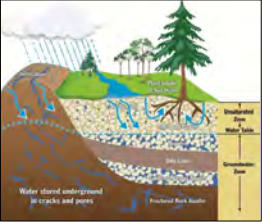



**Storey County DRAFT Source Water Protection Areas & Potential Contaminant Sources**

- 650 Foot SWPA around Water Treatment Plant
- Three Potential Contaminant Sources
  - Increased Security/Reduce Vandalism
  - Inactive RCRA – Nevada Bell
  - Closed UST – Diesel - Release
- Management Strategies
  - Education and Outreach
  - Interagency Collaboration
  - Spill Response and Cleanup

**Groundwater in Storey County**

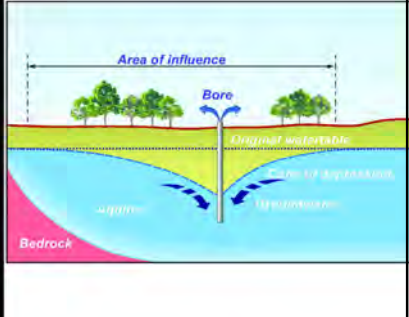
Water System No.	Water System Name	Type	Status	Principal County Served	Primary Source Water Type	Number of Sources
NV0000179	ASIA UNION ELECTRONIC/CHEMICALS RENO	NTNC	A	STOREY	GW	1 Well
NV0005055	CANYON GID	C	A	STOREY	GW	2 Active 1 Inactive
NV0003075	EP MINERALS LLC CLARK	NTNC	A	STOREY	GW	1 Well
NV0000082	MARBLE PAPER MIL INC	NTNC	A	STOREY	GW	1 Well
NV0000018	TRI GENERAL IMPROVEMENT DISTRICT	NTNC	A	STOREY	GW	8 Wells

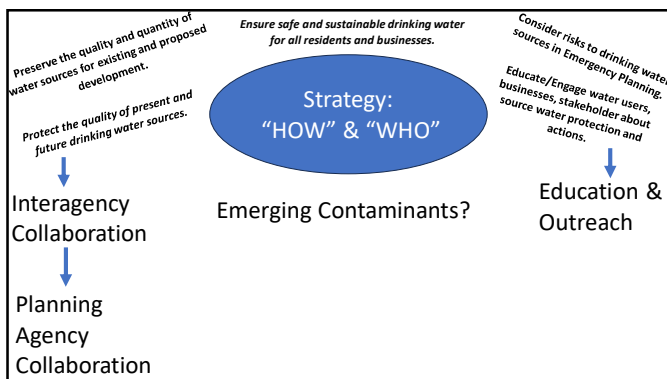
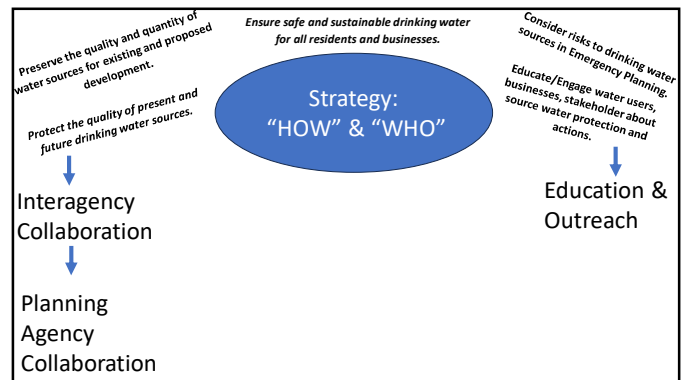
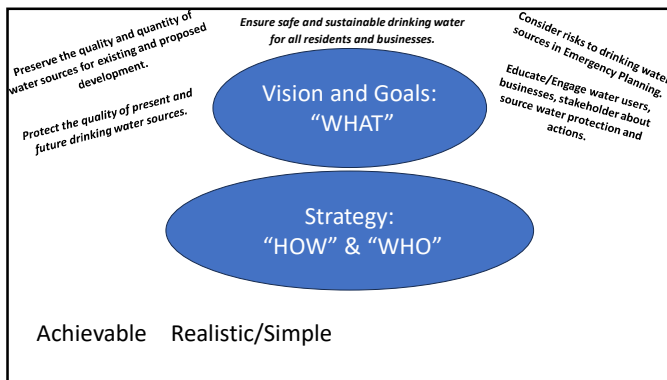
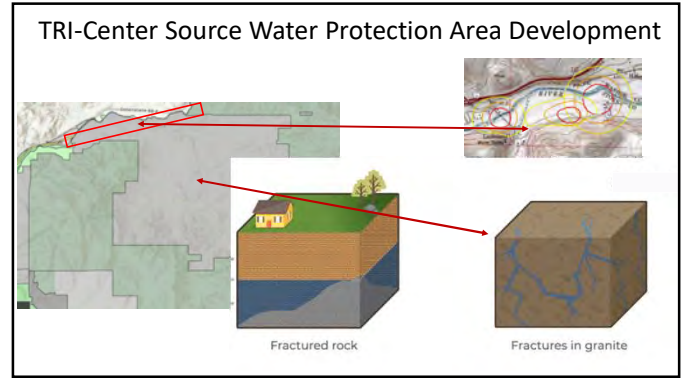
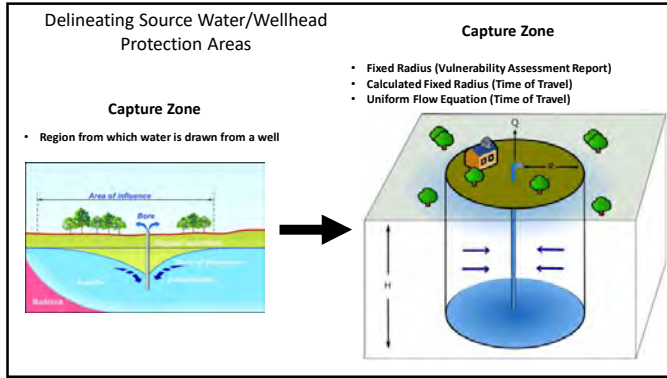


**Delineating Source Water/Wellhead Protection Areas**

**Capture Zone**

- Region from which water is drawn from a well





### Draft Schedule

Copyright © 2000 United Feature Syndicate, Inc. Redistribution in whole or in part prohibited.

February 2024 – Water Characterization, Potential Contaminant Source Inventory, Source Water Protection Areas

Week of February 26 – Finalize Potential Contaminant Source Inventory, Source Water Protection Areas

**March 2024 – Strategies, Action Plan**

April 2024 – Review Final Documents and Provide Feedback

May 2024 – Present to Boards for Approval

June 2024 – Final Document



# DRAFT Agenda

## Source Water Protection (SWP) Program

### Source Water Protection Program

### Community Source Water Protection (CSWP) Plan Team Meeting #4

Date: March 14, 2024

Time: 2:00 – 3:00 PM

Where: Virtual on Teams

**1. Welcome**

**2. Discuss Source Water Protection Areas**

- Capture Zone Analysis for TRI-GID
  - Discuss SWPA Delineations
  - Potential Contaminant Source Inventory within SWPAs
- Canyon GID Watershed Areas of Interest

**3. Team Brainstorm – Management Strategies**

- Management strategies to protect YOUR sources of drinking water are locally driven. Get CREATIVE!
- What strategies can easily be put into action to implement YOUR Plan Vision and Goals?

**4. Schedule and Next Steps**

Storey County Pictures!

# Draft Meeting Notes

## TRI-GID, Canyon GID, Storey County, U.S. Silica, NDEP, & RCI

Thursday, March 14, 2024  
2:00pm-3:00pm (Pacific)  
Virtual Meeting on Teams

### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Shari Whalen	775-636-6126	swhalen@tri-gid.org	General Manager, TRI-GID
Kathy Canfield	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Mitch Andreini	775-342-2850	canyongid@att.net	General Manager, Canyon GID
Scott Peterson	702-283-0296	Scott.peterson@effem.com	Health, Safety, and Environmental Manager, Mars Pet Nutrition
Ethan Mason	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

### Purpose & Overview

The purpose of this meeting was to discuss additions to Canyon GID Source Water Protection Areas (SWPAs) and develop management strategies for the County-Wide Community Source Water Protection (CSWP) Plan.

### Discussion

#### 1. Welcome

The meeting began with a tentative schedule discussion. The Team agreed to tentatively commit to the following meetings:

- April 25, 2024, Final In-Person Meeting (TBD using a Doodle Poll).
- May 16, 2024, Planning Commission Meeting.
- May 21, 2024, Canyon GID Board Meeting.
- May 21, June 4, or June 18, 2024, Board of Commissioners Meeting.
- June 3, 2024, TRI-GID Board Meeting (TBD by TRI-GID).

#### 2. Discuss Source Water Protection Areas (SWPAs)

The Team reviewed the new Canyon GID watershed based "Areas of Interest" (AOIs). Reasons for adding these new areas include:

- The risk of emerging contaminants to Canyon GIDs water sources from various recharge areas,
- Potential development in the Taheo-Reno Industrial Center (TRIC) within the Lower Long valley Creek HUC-12.
- Management Strategies for these new AOIs may include:
  - Interagency Collaboration,
  - Planning Agency Coordination, and
  - Education and Outreach.

### 3. Team Brainstorm – Management Strategies

The Team discussed and agreed that the county-wide management strategies should be achievable, realistic, and simple. Several management strategies agreed upon during the meeting include:

- Education and Outreach – supports Goals 3 & 4.
- Interagency Collaboration – supports Goals 1, 2, & 3.
- Planning Agency Coordination – supports Goal 2, among others.

The Team agreed to revisit these strategies in the next Team meeting upon viewing the SWPAs for TRI-GID.

#### Next Steps / To Do List

Next Team Meeting: April 4, from 9:00-10:00AM (PST)

#### RCI:

- Draft separate Action Plans for Team review.
- Draft SWPAs for TRI-GID, Emergency Management, and Team review.
- Draft CSWP Plan Management Strategies that support the CSWP Plan Vision and Goals for Team review.
- Send a Doodle Poll for final Team In-Person Meeting

#### Team

- Provide input and review as requested.
- Continue to think about Source Water Protection County-Wide Management Strategies.

Nevada  
**Integrated Source Water**  
Protection Program  
<https://ndep.nv.gov/water/source-water-protection>

**NDEP**  
Bureau of Safe Drinking Water

Ethan Mason  
[e.mason@ndep.nv.gov](mailto:e.mason@ndep.nv.gov)  
775-687-9311

**RCI**  
Research Insights Inc.  
Jill Sutherland, PE - [Jill@RCI-NV.com](mailto:Jill@RCI-NV.com)  
Alison Cramer, EIT - [Alison@RCI-NV.com](mailto:Alison@RCI-NV.com)  
Erin Smith - [Erin@RCI-NV.com](mailto:Erin@RCI-NV.com)  
340 N. Minnesota Street  
Carson City, Nevada  
775-883-1600  
Contractor for the Nevada Integrated Source Water Protection Program

1

**Draft Schedule**

Copyright © 2000 United Feature Syndicate, Inc.  
Redistribution in whole or in part prohibited

March 14, 2024 – Strategies, Action Plan

April 2024 – Review Final Documents and Provide Feedback – **April 25 Meeting In-Person (Doodle Poll...)**

May 2024 – Present to Boards for Approval – **Planning Commission Meeting May 16th, 2024**  
**TRI-GID Board Meeting June 3, 2024**  
Canyon GID Board Meeting May 21<sup>st</sup>, 2024 @ 6pm  
**Board of Commissioners Meeting May 21st, 2024 (6/4/24 or 6/18/24)**

End of June 2024 – Final Document

2

**Developing a Community Plan....**

✓ Develop a local Planning Team

✓ Drinking Water Source Inventory

Potential Contaminant Source Inventory

✓ Preliminary Watershed Areas and Capture Zones

Source Water Protection Areas

**COLLABORATION FOR THE WIN**

3

**Community Source Water Protection Plan for Public Water Systems in Storey County – DRAFT Outline**

CSWP Plan Main Body – *Set the Scene*

Appendix A – All Water Systems      Source Water Protection Area Maps

Appendix B – All Water Systems      Action Plan

Appendix C – All Water Systems      Education Plan

Appendix D – All Water Systems      Meeting Notes

Appendix E      Appendix F      Appendix G      Appendix H

Canyon GID WHPP      Storey County CSWP Plan      TRI-GID WHPP      Privately Owned Public Water Systems WHPP

4

You can't depend on **your eyes** when **your imagination** is out of focus. - Mark Twain

**Community Source Water Protection Plan Vision**

*The WHAT*  
*The PURPOSE*

5

You can't depend on **your eyes** when **your imagination** is out of focus. - Mark Twain

**Community Source Water Protection Plan Vision**

*Ensure safe and sustainable drinking water for all residents and businesses.*

6



**Community Source Water Protection Plan Goals**

*The AIM  
The RESULT*

7

**1. Protect the quality of present and future drinking water sources.**

**Community Source Water Protection Plan Goals**

*The AIM  
The RESULT*

8

**1. Protect the quality of present and future drinking water sources.**

**2. Preserve the quality and quantity of water sources for existing and proposed development.**

**Community Source Water Protection Plan Goals**

*The AIM  
The RESULT*

9

**1. Protect the quality of present and future drinking water sources.**

**2. Preserve the quality and quantity of water sources for existing and proposed development.**

**3. Consider risks to drinking water sources in Emergency Planning.**

**Community Source Water Protection Plan Goals**

*The AIM  
The RESULT*

10

**1. Protect the quality of present and future drinking water sources.**

**2. Preserve the quality and quantity of water sources for existing and proposed development.**

**3. Consider risks to drinking water sources in Emergency Planning.**

**4. Engage water users, stakeholders, and businesses about source water protection and participation.**

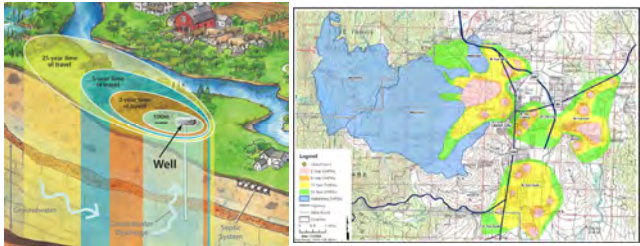
**Community Source Water Protection Plan Goals**

*The AIM  
The RESULT*

11

**What is a Source Water/Wellhead Protection Area?**

An area of land that contributes water to the drinking water supply  
An area where man-made pollution poses a threat to a water source  
Community-established boundary to protect a water source



12

### Potential Sources of Contamination

Current and prospective activities that have the potential to release contaminants to the environment

**Common Sources of Ground Water Contamination**

- Excavations, Mining
- Surface water runoff
- Protective Soil Gap
- Non-point Sources
- Leaky Well Casing
- Storm Drain or Injection Well
- Oil, Solvent, Lead
- Septic Leachate
- Landfill Leachate
- River Leakage
- Fertilizers, Pesticides, Road Salt
- Water Well

- Hazardous Material
- Storage Handling
- Disposal
- Vandalism

- Controls:
- ❖ Potential for release?
- ❖ Risk to drinking water?
- ❖ Communication?

13

### TRI-Center Source Water Protection Area Development

Fractured rock

Fractures in granite

14

### Delineating Source Water/Wellhead Protection Areas

**Capture Zone**

- Fixed Radius (Vulnerability Assessment Report)
- Calculated Fixed Radius (Time of Travel)
- Uniform Flow Equation (Time of Travel)

**Capture Zone**

- Region from which water is drawn from a well

15

### Community Source Water Protection Plan Vision

You can't depend on **your eyes** when **your imagination** is out of focus. - Mark Twain

**Ensure safe and sustainable drinking water for all residents and businesses.**

16

1. Protect the quality of present and future drinking water sources.
2. Preserve the quality and quantity of water sources for existing and proposed development.
3. Consider risks to drinking water sources in Emergency Planning.
4. Engage water users, stakeholders, and businesses about source water protection and participation.

Community Source Water Protection Plan Goals

**The AIM**  
**The RESULT**

17

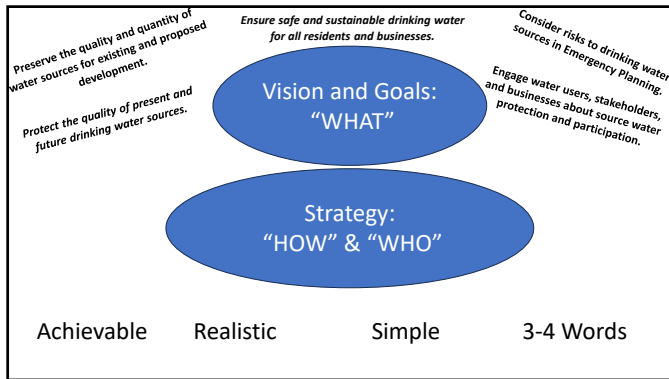
**HOW TO ACHIEVE YOUR GOAL**

DEFINE IT  
WANT IT  
BELIEVE IT  
WRITE IT DOWN  
SPLIT IT UP  
REVIEW IT  
SCHEDULE IT  
MAKE IT HAPPEN

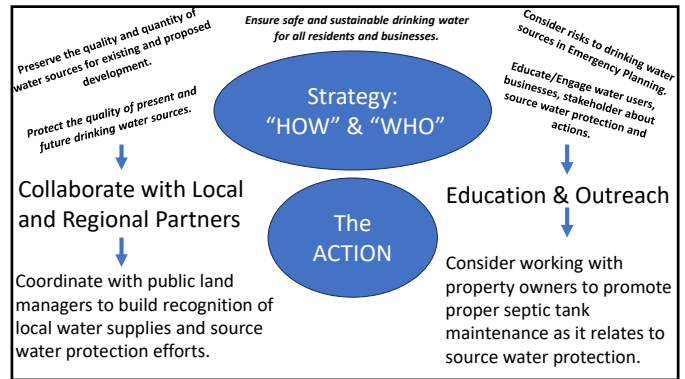
Community Source Water Protection Plan Management Strategies

**The HOW**  
**The WHO**

18



19



20

<p><b>Goal 1:</b></p> <p>Protect the quality of present and future drinking water sources.</p>	<p><i>Protect the quality of present and future water resources. – Chpt. 10, Goal 6 (SC MP)</i></p> <p><i>Provide ongoing protection for current and future drinking water sources. – Goal 4 (C GID)</i></p> <ul style="list-style-type: none"> <li>Safeguard Shared Drinking Water Sources</li> <li>Interagency Coordination</li> <li>Collaborate with Local and Regional Partners</li> </ul>
--	--

21

<p><b>Goal 2:</b></p> <p>Preserve the quality and quantity of water sources for existing and proposed development.</p>	<p><i>Support Storey County in protecting wellhead and source water protection areas and municipal watersheds from undue degradation. – Chpt. 4, Policy 15-3 (SC MP)</i></p> <p><i>Guide and support land use decisions regarding wellhead and source water protection areas and future well sites. – Goal 7 (C GID)</i></p> <ul style="list-style-type: none"> <li>Planning Agency Coordination</li> <li>Interagency Coordination</li> </ul>
--	---

22


<p><b>Goal 3:</b></p> <p>Consider risks to drinking water sources in Emergency Planning.</p>	<ul style="list-style-type: none"> <li>Spill Response and Cleanup</li> <li>Physical Improvements</li> <li>Water Quality Best Management Practices</li> </ul>
--	--

23

<p><b>Goal 4:</b></p> <p>Engage water users, businesses, and stakeholders about source water protection and participation.</p>	<p><i>Engage the community through public activities, information, and education regarding source water protection. (Strategy E – CGID)</i></p> <ul style="list-style-type: none"> <li>Education &amp; Outreach</li> </ul>
--	--

24

**Draft Schedule**



Copyright © 2000 United Feature Syndicate, Inc.  
Redistribution in whole or in part prohibited.

**March 14, 2024** – Strategies, Action Plan

**April 2024** – Review Final Documents and Provide Feedback – **April 25 Meeting In-Person?**

**May 2024** – Present to Boards for Approval – **Planning Commission Meeting May 23, 2024**  
**TRI-GID Board Meeting June 3, 2024**  
Canyon GID Board Meeting??  
**Board of Commissioners Meeting June 18, 2024**

**End of June 2024** – Final Document



# DRAFT Agenda

## Source Water Protection (SWP) Program

### Source Water Protection Program

### Community Source Water Protection (CSWP) Plan Team Meeting #5

Date: April 4, 2024  
Time: 9:00 – 10:00 AM  
Where: Virtual on Teams

- 1. Welcome**
- 2. Review Management Strategies and Actions**
  - Review and finalize the management strategies and actions which protect your sources of drinking water.
  - Do these CSWP Plan strategies implement YOUR community goals, and can they be easily put into action?
- 3. Bonus - Public Education and Outreach**

Review and discuss public education and outreach activities to be completed during and/or following CSWP Plan development.
- 4. Schedule and Next Steps**

Storey County Pictures!

## Draft Meeting Notes

### TRI-GID, Canyon GID, Storey County, U.S. Silica, NDEP, & RCI

Thursday, April 4, 2024

9:00pm – 10:00pm (Pacific)

Virtual Meeting on Teams

#### Attending

NAME	CONTACT INFORMATION		AFFILIATION
Kathy Canfield	775-847-1144	kcanfield@storeycounty.org	Planning Manager, Storey County
Jason Wierzbicki	775-847-0958	jwierzbicki@storeycounty.org	Public Works Director, Storey County
Mitch Andreini	775-342-2850	canyongid@att.net	General Manager, Canyon GID
Adam Wilson	775-634-7443	awilson@storeycounty.org	Emergency Management Director
Connor Welsh	775-560-4119	Connor.welsh@ussilica.com	Regional Environmental Manager US Silica
Ethan Mason	775-687-9311	e.mason@ndep.nv.gov	Coordinator, NDEP Integrated Source Water Protection Program (ISWPP)
Erin Smith	775-883-1600	erin@rci-nv.com	Resource Concepts, Inc. (RCI)
Alison Cramer	775-883-1600	alison@rci-nv.com	Resource Concepts, Inc. (RCI)
Jill Sutherland	775-883-1600	jill@rci-nv.com	Resource Concepts, Inc. (RCI)

#### Purpose & Overview

The purpose of this meeting was to finalize management strategies and discuss actions to be included in the Action Plan.

#### Discussion

##### 1. Welcome

The meeting began with a tentative schedule discussion. Meeting planned for April 25 in-person, but may need to be moved – doodle poll is out to the Team.

##### 2. Review Management Strategies and Actions

The Team reviewed the Management Strategies that were compiled by RCI and discussed in the previous Team meetings. The Team then reviewed several examples of Actions and Strategies, including a proposed Action Plan format. Also discussed was how the Action Plan relates to implementation of the CSWP Plan. The Team understands they will be receiving draft Action Plans to review next week.

Management strategies include:

- Interagency Collaboration,
- Planning Agency Coordination,
- Spill Response and Cleanup,
- Physical Improvements,
- Water Quality Best Management Practices, and
- Education and Outreach.

The Team also discussed **Emerging Contaminants** and potentially adding a strategy to increase awareness about upcoming demands on public water systems (PWSs).

### *Per- and Polyfluoroalkyl Substances (PFAS)*

It is important to use “emergency contaminants”, rather than only “PFAS” language to encompass all potential regulatory developments and new funding opportunities.

- PFAS can enter water sources through wastewater, leachates, runoff, and more.
- Health effects are still being researched, but are known to have implications for liver function, cancers, pregnancy difficulties, and more.
- PWSs get information from BSDW about requirements and opportunities.
  - Canyon GID has a pilot plan delivered to use and evaluate for the next 6 months that will treat drinking water for PFAS. One inch diameter feed line will process water continuously through the treatment system.
  - [DEXSORB Cyclopure](#) – filtration system is based out of Chicago, IL. Filters are sent back to the company and they refurbish the filter for reuse.
  - There are disposal concerns with the spent filter media contaminated with PFAS.
- On-going Emerging Contaminant testing results are available [PFAS in Nevada | NDEP \(nv.gov\)](#).
  - [WTR NDEP PFAS QAPP Final 09292023.pdf \(nv.gov\)](#)
  - [Drinking Water 2-6-2024.xlsx \(live.com\)](#)
  - [Surface water 1-29-2024.xlsx \(live.com\)](#)
  - [Wastewater 1-29-2024.xlsx \(live.com\)](#)

### *Lead and Copper Rule*

- Takes a lot of time to test for lead and copper and is dependent on the willingness of a private homeowner to allow for testing.

The Team discussed potential additions to their Action Plans. The Team wants to know where PFAS that is detected in source water comes from. Actions could include:

- Develop an inventory of emerging contaminants by working with Emergency Managers and other agencies.
- Engage in conversations about Truckee River water quality.
- Understand how PFAS travels through different substrates and groundwater.
  - Consider participating in a wide scale fate and transport study.
- Participate in an emerging contaminant working group learn about the evolving research, treatment technology, funding opportunities, and regulations.

### 3. Bonus – Public Education and Outreach

The Team discussed public education and outreach needs for emerging contaminants.

- Interested in public education and materials to hand out or hang on doors.
- The Team agreed that it is important to be upfront with the public.

### Next Steps / To Do List

Next Team Meeting:

TBD

RCI:

- RCI will provide links to Emerging Contaminant testing results.
- Send Team individual Action Plans the week of 4/8 for their review and comment.
- Provide other draft text for review.

Team

- Review draft documents provided.

**Nevada Integrated Source Water Protection Program**  
<https://ndep.nv.gov/water/source-water-protection>

**RCI**  
 Resource Consultants  
 Jill Sutherland, PE, [jill@rci-nv.com](mailto:jill@rci-nv.com)  
 Alison Cramer, EIT, [alison@rci-nv.com](mailto:alison@rci-nv.com)  
 Erin Smith, [erin@rci-nv.com](mailto:erin@rci-nv.com)  
 340 N. Minnesota Street  
 Carson City, Nevada  
 775-883-1600  
 Contractor for the Nevada Integrated Source Water Protection Program

**NDEP**  
 Bureau of Safe Drinking Water  
 Ethan Mason  
[e.mason@ndep.nv.gov](mailto:e.mason@ndep.nv.gov)  
 775-687-9311

1

**Draft Schedule**

AND WE FINISHED AHEAD OF SCHEDULE... QUESTION ARE YOU REFERRING TO THE ORIGINAL SCHEDULE OR THE EIGHTH REVISION? SCHEDULES CAN CHANGE... THAT WOULD BE CALLED A CALENDAR!

Copyright © 2000 United Feature Syndicate, Inc. Redistribution in whole or in part prohibited.

March 14, 2024 – Strategies, Action Plan

April 2024 – Review Documents and Provide Feedback – **April 25 Meeting In-Person**

May 2024 – Present to Boards for Approval – **Planning Commission Meeting May 16th, 2024**  
**TRI-GID Board Meeting May 20, 2024 - tentative**  
 Canyon GID Board Meeting May 21<sup>st</sup>, 2024 @ 6pm  
**Board of Commissioners Meeting May 21st, 2024 (6/4/24 or 6/18/24)**

End of June 2024 – Final Document

2

1. **Protect the quality of present and future drinking water sources.**
2. **Preserve the quality and quantity of water sources for existing and proposed development.**
3. **Consider risks to drinking water sources in Emergency Planning.**
4. **Engage water users, stakeholders, and businesses about source water protection and participation.**

Community Source Water Protection Plan Goals

**The AIM**  
**The RESULT**

3

**HOW TO ACHIEVE**

**YOUR GOAL**

DEFINE IT  
WANT IT  
BELIEVE IT  
WRITE IT DOWN  
SPLIT IT UP  
REVIEW IT  
SCHEDULE IT  
MAKE IT HAPPEN

Community Source Water Protection Plan Management Strategies

**The HOW**  
**The WHO**

4

Preserve the quality and quantity of water sources for existing and proposed development.

Protect the quality of present and future drinking water sources.

Ensure safe and sustainable drinking water for all residents and businesses.

Consider risks to drinking water sources in Emergency Planning.

Engage water users, stakeholders, and businesses about source water protection and participation.

**Vision and Goals: "WHAT"**

**Strategy: "HOW" & "WHO"**

**The ACTION Plan**

Achievable  
Realistic

Simple

5

1. **Protect the quality of present and future drinking water sources.**
2. **Preserve the quality and quantity of water sources for existing and proposed development.**
3. **Consider risks to drinking water sources in Emergency Planning.**
4. **Engage water users, stakeholders, and businesses about source water protection and participation.**

**Interagency Collaboration**

6

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.*

4. *Engage water users, stakeholders, and businesses about source water protection and participation.*

7

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.* Spill Response & Cleanup

4. *Engage water users, stakeholders, and businesses about source water protection and participation.*

8

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.* Spill Response & Cleanup

4. *Engage water users, stakeholders, and businesses about source water protection and participation.* Physical Improvements

9

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.* Spill Response & Cleanup

4. *Engage water users, stakeholders, and businesses about source water protection and participation.* Water Quality Best Management Practices

10

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.* Spill Response & Cleanup

4. *Engage water users, stakeholders, and businesses about source water protection and participation.* Water Quality Best Management Practices

Physical Improvements

Education & Outreach

11

1. *Protect the quality of present and future drinking water sources.* Interagency Collaboration

2. *Preserve the quality and quantity of water sources for existing and proposed development.* Planning Agency Coordination

3. *Consider risks to drinking water sources in Emergency Planning.* Spill Response & Cleanup

4. *Engage water users, stakeholders, and businesses about source water protection and participation.* Water Quality Best Management Practices

Physical Improvements

Education & Outreach

12





Emerging Contaminants					
Community Source Water Protection Action Plan					
Management Strategy	Action Description	Priority and Cost	Project Lead	Type of Assistance Needed	Expected Implementation Year
Emerging Contaminants	Coordinate with NDEP on availability of, and eligibility for, funding to address emerging contaminants.	High Staff Time	All	Technical Assistance	2024 & Ongoing
Emerging Contaminants	Promote community-wide education about emerging contaminants and lead and copper. For example, develop pamphlets to insert in water bills and door hangers to distribute to residential communities.	High Staff Time \$500	Storey County Planning Department & Water District	Technical Assistance for materials	2024 & Ongoing
Emerging Contaminants	Consider applying for State programs that fund testing for emerging contaminants.	High Staff Time	Canyon GID	Technical Assistance	2024-2026

25

Emerging Contaminants					
Community Source Water Protection Action Plan					
Management Strategy	Action Description	Priority and Cost	Project Lead	Type of Assistance Needed	Expected Implementation Year
Emerging Contaminants	Coordinate with NDEP on availability of, and eligibility for, funding to address emerging contaminants.	High Staff Time	All	Technical Assistance	2024 & Ongoing
Emerging Contaminants	Promote community-wide education about emerging contaminants and lead and copper. For example, develop pamphlets to insert in water bills and door hangers to distribute to residential communities.	High Staff Time \$500	Storey County Planning Department & Water District	Technical Assistance for materials	2024 & Ongoing
Emerging Contaminants	Consider applying for State programs that fund testing for emerging contaminants.	High Staff Time	Canyon GID	Technical Assistance	2024-2026
Emerging Contaminants	Work with ISWPP Technical Assistance to develop a specific GIS database of facilities in the Tri-Center that manufacture or distribute products with PFAS. – add canyon gid as well	High Staff Time	TRI-GID	Technical Assistance	2024 & ongoing

26

Emerging Contaminants					
Community Source Water Protection Action Plan					
Management Strategy	Action Description	Priority and Cost	Project Lead	Type of Assistance Needed	Expected Implementation Year
Emerging Contaminants	Coordinate with NDEP on availability of, and eligibility for, funding to address emerging contaminants.	High Staff Time	All	Technical Assistance	2024 & Ongoing
Emerging Contaminants	Where is it coming from? Which companies are using Emerging Contaminants? Develop an inventory upstream – Coordinate with TMWA, WRWC to look into potential sources.				
Emerging Contaminants	Attend a quarterly working group – information about fate and transport and treatment technologies				
Emerging Contaminants	Tier 2 list through state fire marshals office – work with Storey County and – maybe not feasible because database is large				
Emerging Contaminants	Funding is the biggest issue -				

27



# Appendix D

## Meeting Notes

Storey County & Public Water System  
Approval & Endorsement

# Appendix D

## Meeting Notes

Nevada Division of Environmental Protection  
Endorsement