# CITY OF KEIZER | Public Works Department | UIC Systemwide Assessment

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Prepared by the Environmental & Technical Division

**January 2025**

**2025 UIC Systemwide Assessment**

**CITY OF KEIZER | Public Works Department**
*Environmental & Technical Division*

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# Section 1 – Executive Summary

## 1.1 Systemwide Assessment Purpose

The DEQ requires that a Systemwide Assessment be done as part of the City of Keizer's Water Pollution Control Facility (WPCF) permit. The purpose of the Systemwide Assessment is to consider all City-owned or operated UIC systems in light of the assessment factors outlined in the WPCF permit, which are designed to identify situations that could adversely affect water quality.

A Systemwide Assessment will be conducted every five years (mid-permit term and end of permit term/renewal), in order to inform and guide management of the City's UIC systems over time and to ensure the UIC Management Plan is current and effective.

This Systemwide Assessment evaluates a variety of physical, spatial and relational factors to assess the potential risk of adverse impacts to UICs owned and operated by the City. The permit required factors for assessing all City owned or operated UICs are summarized as follows:

- UIC Inventory – the City must maintain an updated inventory of all City owned or operated UICs, including latitude and longitude.
- Vehicle Trips Per Day – the City must assess the estimated vehicle trips per day for the areas drained by each City owned or operated UIC.
- Direct Discharges to Groundwater – the City must maintain an updated inventory of all City owned or operated UICs which discharge directly into groundwater.
- Horizontal Well Setbacks – the City must maintain an inventory of all City owned or operated UICs which do not meet horizontal setback distances for water wells.
- Prohibited UICs – the City must identify, report, and eliminate any City owned or operated UICs prohibited by OAR 340-044-0015(d), including UICs installed in vehicle maintenance areas, floor drains, fuel dispensing areas, permittee owned or operated fire station floor drains or maintenance facilities.
- Discharge Potential by Land Use Type – the City must maintain and inventory of all industrial and commercial properties that pose a risk of pollutant discharge to City owned or operated UICs.

For each assessment factor, City staff analyzed pertinent datasets (from a variety of sources) to determine the number of UICs at risk in each category, identified any gaps that need to be addressed in future, and any follow up actions, including any need for additional analysis.

## 1.2 Summary of Findings

Table 1 summarizes the City's findings for each of the required assessment factors. See Sections 3-8 for detailed discussions of the City's approach and descriptions of the data sources, findings, and

recommended future actions. The assessment data for each UIC may be found in Appendix A: Systemwide Assessment Data.

**Table 1. Summary of Assessment Factors:**

| Assessment Factor | Results |
|---|---|
| UIC Inventory | 112 UICs owned or operated by Keizer |
| Vehicle Trips Per Day | 55 UICs receive drainage from roads having >1000 vehicle trips per day |
| Direct Discharges to Groundwater | None of the City's UICs discharge directly to groundwater. |
| Horizontal Well Setbacks | 26 UICs do not meet the required minimum horizontal setbacks from water wells.<br><br>30 UICs are within the 2-Year Time of Travel; 78 UICs are within 500 feet of a drinking water well; 2 UICs are within Keizer's modeled well setbacks. |
| Prohibited UICs | 1 UIC is within a prohibited vehicle maintenance area. *The City reported this to DEQ in the 2023/24 WPCF Annual Report* |
| Potential Discharge by Land Use Type | 21 UICs receive drainage from land use types that could potentially discharge pollution. |

# Section 2 – Overview

## 2.1 Keizer Drinking Water Source – Deep Confined Aquifers

Groundwater is the sole source of public drinking water in the City of Keizer. The City owns and operates 15 public drinking water supply wells. All of the wells derive water from the Troutdale aquifer, a productive and historically protected aquifer generally comprised of sand and gravel.

All of the City wells draw water from a depth at or below 100 feet, with the majority of the wells obtaining water from depths of 120-300 feet. A semi-confining clay layer underlies most of the City at a depth of 60-100 feet. Since 2001, the City has been improving the wells by sealing them into this clay layer with steel well casings and cement grout to protect drinking water quality. As of this report, all wells have been sealed from interaction with shallow groundwater.

Within the City limits there are also many privately owned water wells, used for both drinking water and for irrigation (173 private water wells at the time of this assessment). These wells have been mapped from well logs recorded with the Oregon Water Resources Department. Well logs are often unclear and/or incomplete, such that exact well locations may not be determinable except to the tax lot boundary associated with the well. For this reason, the City chose to evaluate the horizontal well setbacks of UICs using the edge of parcels for tax lots containing a well record. See Section 6: Horizontal Setbacks, for more information.

## 2.2 Keizer UIC System

The City of Keizer currently owns/operates 112 UICs within the city limits. The UIC infrastructure includes approximately 575 UIC catch basins, 28 drywells (perforated or bottomless manholes) and 46,156.9 feet of horizontal perforated pipe. Most of the UICs are configured as an area network of catch basins and manholes connected by horizontal perforated pipe. Of the 112 UICs, 29 are connected to the MS4 system (sometimes with an overflow or weir).

The City has a delineated overall drainage area for each UIC, as well as effective impervious surface within that area. City UICs encompass a total drainage area of 464.4 acres, although the effectively impervious area is only 256.2 acres. The majority of UIC drainage comes from residential zoned areas with a minority industrial zoned areas. There are 6 UICs in industrially zoned areas and 15 are commercially zoned. Please refer to Section 3: UIC Inventory for further details. For location data of all current City UICs, refer to Attachment A: Systemwide Assessment Data.

## 2.3 Keizer Groundwater Protectiveness Model

The City of Keizer contracted GSI Water Solutions in July 2012, with updates made in November 2013, to create and run a Groundwater Protectiveness Model. The model utilizes Keizer-specific inputs to determine the vertical and horizontal UIC setbacks that are protective of groundwater. The model

was designed to be highly conservative in nature, using the most mobile stormwater pollutants and the most conservative assumptions to run.

The model defines the protective horizontal distance for Keizer UICs called a Waste Management Area (WMA). Any UICs that do not have water wells within this boundary are protective of water wells. Based upon the conclusions and recommendations in the GWPD Keizer has replaced the default 500-foot horizontal setback to 101 feet horizontal separation distance for horizontal UIC's and 117 feet horizontal separation distance for vertical and hybrid UIC's.

The Groundwater Protectiveness Model provides other information such as protective depth/distance from groundwater, and pollutant-specific protective distances and setbacks. These elements of the model do not affect the Systemwide Assessment directly but are discussed in more detail in the Section 6 – Horizontal Setbacks.

## 2.4 Systemwide Assessment Approach

The Systemwide Assessment is required in Schedule B (1) of the WPCF permit, which specifies the elements that must be addressed for all injection systems owned or operated by the City. The assessment factors listed in the WPCF permit are as follows:

a. *An updated inventory of all injection systems that receive stormwater or other fluids and their locations by latitude and longitude in decimal degrees using the NAD 83 datum. If a different datum becomes the standard during the permit term, update the underground injection system inventory using the new datum at the five-year review.*
b. *An updated estimate of vehicle trips per day for the area(s) drained by the injection systems.*
c. *An updated inventory of all injection systems that discharge directly into groundwater.*
d. *An updated inventory of all injection systems that do not meet the setback distances listed in Schedule A.*
e. *An updated inventory of all injection systems that are prohibited by OAR 340-044-0015(2), which includes injection systems in vehicle maintenance areas, fuel dispensing areas, floor pits, non-vehicle maintenance facilities' floor drains, and fire station bay floor drains. For these prohibited systems, you also must report and take corrective action as described in Schedule D, conditions 4 and 5.*
f. *An updated inventory of all industrial facilities and commercial properties that pose a risk of pollutant discharge to injection systems that you own or operate.*

Furthermore, Schedule D (5) states that the permittee must implement the DEQ approved management plan, which includes the Systemwide Assessment, and approved updates. The Systemwide Assessment must be revised (if any changes to the system have occurred) in the 5th year of the permit term.

The Systemwide Assessment is laid out with a Section for each of the assessment factors, as follows:

Section 2: Overview

Section 3: UIC Inventory

Section 4: Vehicle Trips per Day

Section 5: Direct Discharge to Groundwater

Section 6: Horizontal Well Setbacks

Section 7: Prohibited UICs

Section 8: Discharge Potential by Land Use Type

Each section includes a discussion of the assessment factor; a description of the data sources used for the analysis; findings of the analysis, and any follow-up actions as a result of the analysis, including any need for further analysis.

# Section 3 – UIC Inventory

## 3.1 Assessment Factor Discussion

Under Schedule B of the WPCF permit it states that the Systemwide Assessment must include, "*an inventory of all injection systems that receive stormwater or other fluids and their locations by latitude and longitude in decimal degrees using the NAD 83 datum".* This section explains the current UIC Inventory, which can be seen in detail in Attachment A: Systemwide Assessment Data.

Having an updated and accurate UIC inventory with details of the location, physical characteristics and relation to various pollutant source areas is important for effective management of the system. The City of Keizer developed a specific stormwater program in 2007 when Keizer received a Phase II NPDES permit.

Since 2010, Stormwater staff has been acquiring data on stormwater assets including UIC systems, as outlined below:

- UIC Identification: The City of Keizer conducted field studies, aerial photo observations, and plan reviews to identify any public underground injection control facilities within city limits.

- Location: Upon identification, each UIC was entered into an ArcGIS spatial mapping database. The precise locations of all system components were located in the field using GNSS as well as CAD drawings georeferenced in our ArcGIS database. The latitude and longitude were taken at the coordinates of the deepest leak.

## 3.2 Data Sources Used

The City of Keizer submitted UIC Registration Data in December 2024, using a spreadsheet format approved by DEQ. For the purposes of the Systemwide Assessment, the UIC Inventory is based on an updated version of this UIC Registration spreadsheet.

The UIC Inventory contains information on all City of Keizer UICs. For the purposes of this document, only the information relevant to the Systemwide Assessment was included (see Attachment A: Systemwide Assessment Data). The full UIC Registration data submitted to DEQ includes data from the following sources:

- ArcGIS Data (spatial/relational data and stormwater asset information)
- Oregon Water Resources Department (water well log data)
- Oregon Department of Environmental Quality (ECSI Cleanup Site Information)
- Oregon Health Authority (2 Year Time-of-Travel)

- City of Keizer Groundwater Elevation Model (groundwater elevation used to determine vertical separation distance)

### 3.3 Findings

The updates/changes reflected in the updated inventory data are summarized below:

- In 2019-20, 6 new UICs were added (#126, #127, #128, #129, #130 and #131)
- In 2020-21, 1 new UIC was installed (#132)
- In 2021-22, 2 new UIC's were installed (#133 and #134)
- In 2022-23, 2 new UIC's were installed (#135 and #136)
- In 2023-24, 1 new UIC was installed (#137 and #138 was revisited and renumbered UIC 67 was split into 2 and renamed #138)

### 3.4 Follow-up Actions

The City will continue to submit updated UIC Registration information to DEQ with the WPCF annual report.

# Section 4 – Vehicle Trips per Day

## 4.1 Assessment Factor Discussion

Under Schedule B of the WPCF permit it states that the Systemwide Assessment must include, *"An estimate of vehicle trips per day for the area(s) drained by the injection systems"*. This section outlines the data and analysis used to determine which UICs accept drainage from roadways having more than 1000 vehicle trips per day. All assessment factor data is included in Attachment A: Systemwide Assessment Data.

It is important to determine which UICs may receive drainage from high traffic areas, because these areas can be a source of specific pollutants (heavy metals, oil and gas) which may exceed regulatory requirements. Knowing which UICs may be at risk for vehicle-related pollutants can help guide management activities. The City is actively utilizing the community to Adopt-A-Street along arterials and collectors. The City is also maintaining regular street sweeping on arterials and collectors.

## 4.2 Data Sources Used

Trips per day were estimated using one source, information on the data source used to gather trips-per-day estimates are detailed below:

Major Arterials (15-50,000), Minor Arterials (7-20,000), and Collector (1600-10000) estimates: In April, 2009 Kittelson & Associates, Inc prepared the *City of Keizer Transportation System Plan (TSP)*. These classifications were based on Design Standards and local surveys and covered the range of estimated vehicular traffic for Major Arterials, Minor Arterials and Collector streets. See Figure 1 Keizer Transportation System Plan Map.

Local Roads (< 1600): The *City of Keizer Transportation System Plan* did not provide reportable data on the Local Roads <1600 TPD.

## 4.3 Findings

Of the City's 112 UICs, 55 may receive drainage from areas having vehicular traffic >1600 trips per day. The breakdown of findings is as follows:

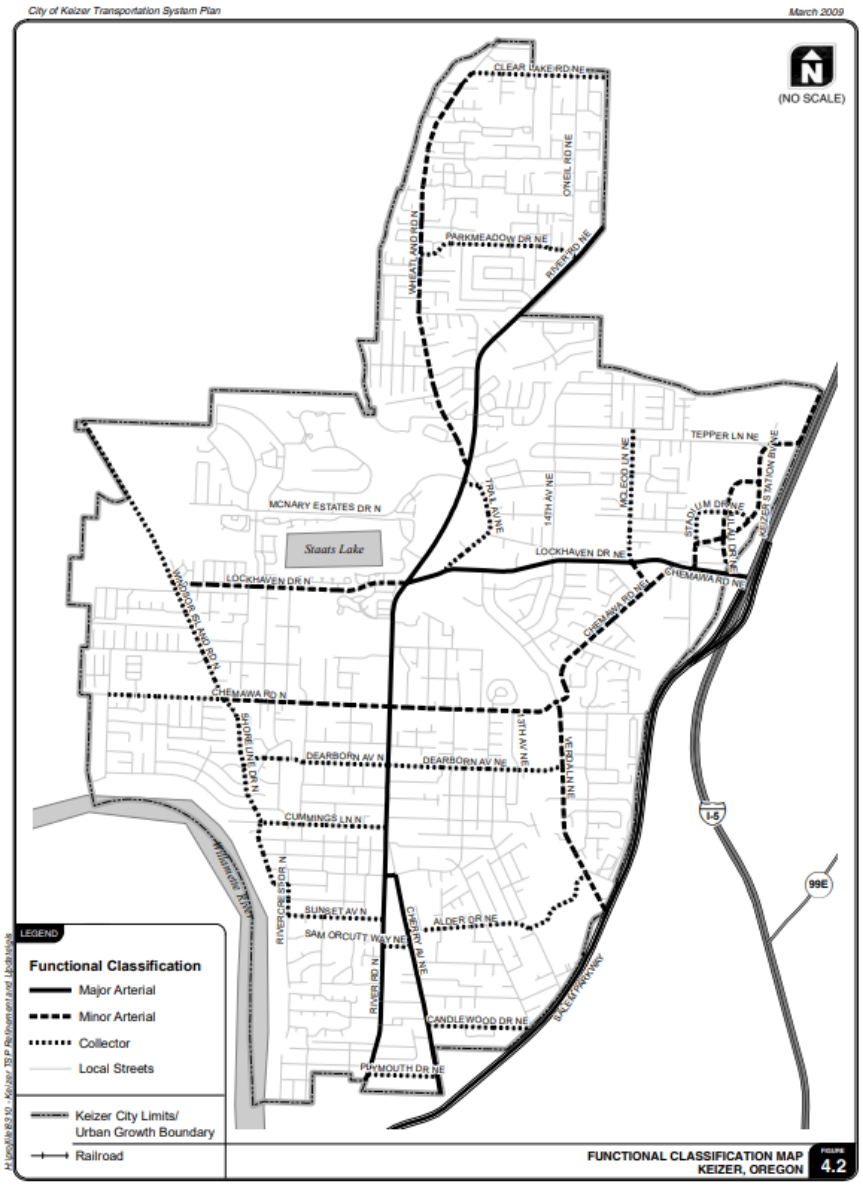
Breakdown of UICs with >1000 Trips per Day (TPD)

| | |
|---|---|
| Local Roads (< 1600 TPD) | 0 UICs |
| Collector Roads (1600-10000 TPD) | 34 UICs |
| Minor Arterials (7000-20000 TPD) | 14 UICs |
| Major Arterials (15000-50000 TPD) | 7 UICs |

## 4.4 Follow-up Actions

The City will continue to implement the Adopt-A-Street Program and Street Sweeping Program to reduce litter and vehicle pollution inputs from high-traffic roadways. The City will seek to perform another Traffic System Plan in the next permit term to identify recent trips per day data. The City will continue to implement updated Design Standards to reduce pollution inputs and provide treatment for stormwater. No further follow-up actions are planned at this time.

**Figure 1: Keizer Transportation System Plan Map**



# Section 5 – UICs Discharging to Groundwater

## 5.1 Assessment Factor Discussion

Under Schedule B of the WPCF permit it states that the Systemwide Assessment must include, *"An inventory of all injection systems that discharge directly into groundwater".* This section describes the process and data used to identify any City owned or operated UICs which may directly discharge to groundwater. All assessment data is included in Appendix A: Systemwide Assessment Data.

WPCF permittees are charged with protecting groundwater from any impacts related to the permitted stormwater UIC system. UICs which directly discharge into groundwater merit special attention in terms of pollutant source analysis and consideration of nearby water wells.

## 5.2 Data Sources Used

In order to determine which UICs are installed in groundwater, the City had to determine two things for each UIC: the deepest point of injection and the elevation of the groundwater at that location. Information on the data developed to determine these two factors is outlined below:

Deepest Point of Injection

Most City UICs are a network of shallow perforated pipes connected to catch basins. Some systems do employ dry wells or perforated manholes. The City determined the deepest point of injection for each UIC by taking field measurements whenever possible.

For UICs where the deepest injection point was not accessible (i.e. a horizontal perforated pipe with no structure at the end), the depth was estimated based on similar systems for which the depth was recorded at the time of installation.

Keizer Groundwater Elevation Model

In order to determine which UICs might be installed in groundwater, City staff developed a Groundwater Elevation Model using a process similar to that which was conducted for Portland by the USGS. The model is based on well log data, surface water points, local geology, and topography to extrapolate a 'blanket' model of groundwater elevation.

In this way, the local groundwater elevation can be estimated at any point of injection. The model process was reviewed by DEQ staff, Greg Geist and Bill Mason, at a meeting to discuss all aspects of the Keizer Groundwater Protectiveness Demonstration in October 2012.

See Figure 2: Keizer Depth to Groundwater Model, for a graphic representation of the model data.

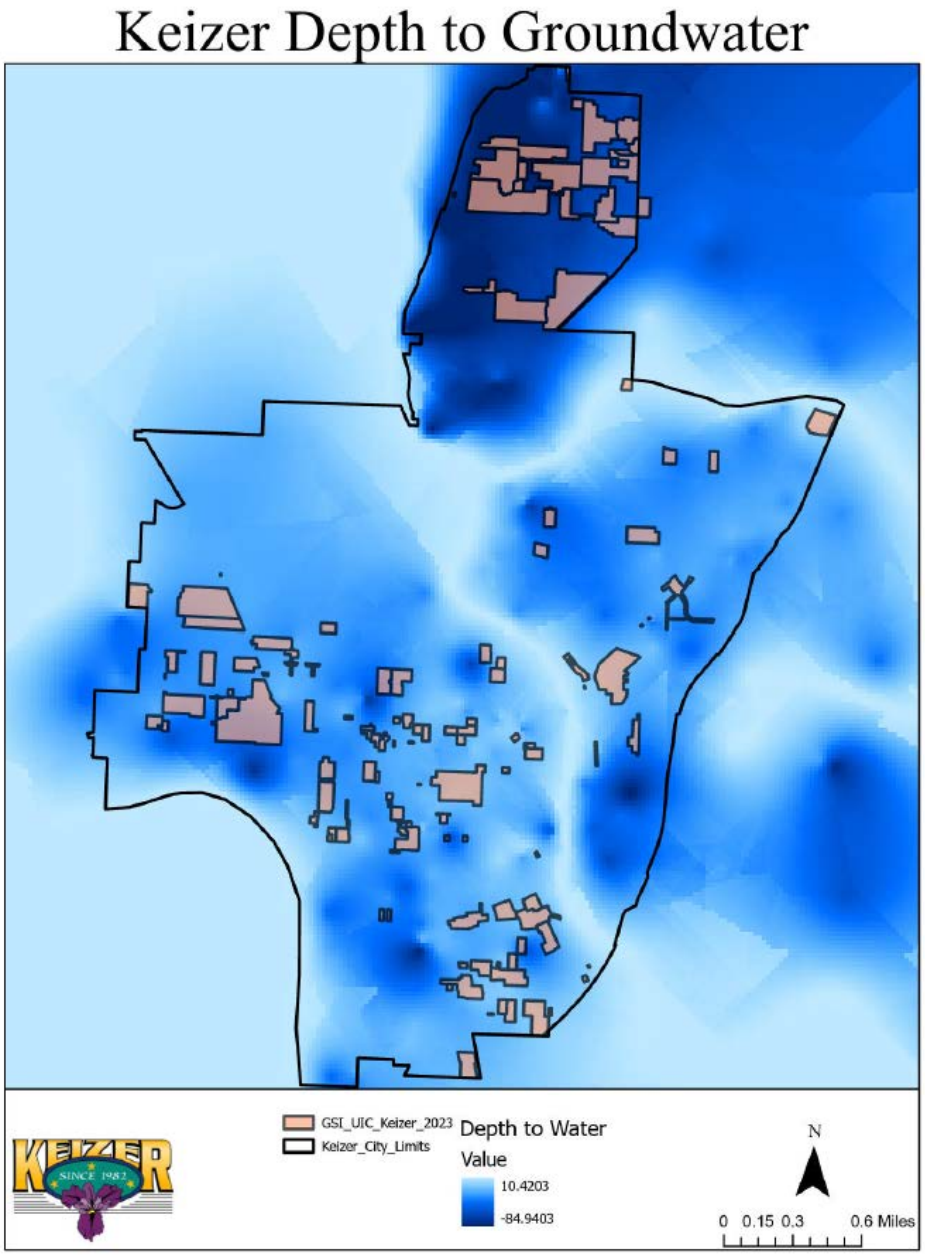
## 5.3 Findings

Based on calculations of the vertical separation distances, staff found that none of the City's UICs discharge directly to groundwater. All UICs meet the GWPD Model vertical setbacks of 2.5 feet for UICs with horizontal construction and 1.8 feet for vertical/hybrid construction.

## 5.4 Follow-up Actions

The City will maintain policies to prohibit installations of UICs that do not meet the modeled vertical setbacks to protect groundwater quality. The model will be updated as needed or as required by DEQ. No further follow-up actions are planned.

**Figure 2: Keizer Depth to Groundwater Model Graphic**



# Section 6 – UICs within Well Setbacks

## 6.1 Assessment Factor Discussion

Under Schedule B of the WPCF permit it states that the Systemwide Assessment must include, *"An inventory of all injection systems that do not meet the setback distances listed in Schedule A".* This section outlines the data and analysis used to determine which City UICs fall into one of the two currently defined well setbacks (500 feet or delineated 2-Year Time of Travel). All assessment data is included in Attachment A: Systemwide Assessment Data.

This assessment factor is important in terms of understanding the nearest point-of-use for groundwater, especially drinking water withdrawal points. All water wells (both drinking and irrigation) are considered important because irrigation water may be incidentally ingested, and irrigation wells may be converted to drinking water wells. The more distance between UIC injection points and any water withdrawal points, the more protective the situation, as pollutants are removed or diluted over distance.

## 6.2 Data Sources Used

City staff performed an ArcGIS desktop analysis to determine any points of injection which fall within defined well setback areas. This was a two-step analysis.

The first step was to put a 117-foot buffer around *all tax lots containing a well and use the edge of the tax lot to measure to closest points of injection*. This is a conservative method of determination, since many well logs do not provide exact well locations. The 2-Year Time of Travel (TOT) was also mapped.

Then all points of injection (perforated pipe, perforated or bottomless structures) were mapped for each City UIC. UICs showing a point of injection within 117 feet of a well tax lot (Hybrid or Vertical UIC) within 101 feet of a well (Horizontal UIC) or within a 2-Year TOT were identified.

## 6.3 Findings

The analysis showed 26 UICs fell within 500 feet of a tax lot containing a water well and within a 2-year TOT delineation for a well.

Keizer has many domestic wells throughout the city limits. However, upon release of the Groundwater Protectiveness Model results, a protective WMA for Keizer UICs has been established. Model results were implemented in the Fall 2013, this 2025 Systemwide Assessment references GSI's Groundwater Protectiveness Demonstration for UIC setbacks as the measure of protectiveness.

Municipal water wells were still considered in the analysis, even though they are unlikely to be affected by any impacts to shallow groundwater. City wells are deep and cased, drawing water from

a depth > 100 feet, with the majority of the wells drawing water from a depth of 120-300 feet. A confining clay layer separates shallow groundwater from the aquifers at a depth of 60-100 feet.

| UIC Facility ID | Within 2-year TOT | Within 500 ft well setback | Within GWPD well setback | GWPD Vertical Separation Distance (ft) | Notes |
|---|---|---|---|---|---|
| 9 | Yes | Yes | No | 13.96 | |
| 10 | Yes | Yes | No | 10.63 | |
| 13 | Yes | Yes | No | 12.28 | |
| 14 | Yes | Yes | No | 15.86 | |
| 15 | Yes | Yes | No | 17.42 | |
| 16 | Yes | Yes | No | 21.95 | |
| 18 | Yes | Yes | No | 18.26 | |
| 19 | Yes | Yes | No | 13.60 | |
| 23 | Yes | Yes | No | 29.29 | |
| 25 | Yes | Yes | Yes | 26.67 | *City Well-Meadows* |
| 30 | Yes | Yes | No | 14.56 | |
| 34 | Yes | Yes | No | 19.03 | |
| 35 | Yes | Yes | No | 20.12 | |
| 51 | Yes | Yes | No | 9.92 | |
| 54 | Yes | Yes | No | 14.26 | |
| 67 | Yes | Yes | No | 39.21 | *Realigned in 2024; split to form UIC 138.* |
| 69 | Yes | Yes | No | 38.92 | |
| 88 | Yes | Yes | No | 18.68 | |
| 103 | Yes | Yes | No | 18.54 | |
| 110 | Yes | Yes | No | 17.00 | |
| 114 | Yes | Yes | No | 64.20 | |
| 115 | Yes | Yes | Yes | 21.20 | *Residential, Local Street, City Well-Lacey, pretreatment with VSF* |
| 126 | Yes | Yes | No | 18.27 | |
| 132 | Yes | Yes | No | 72.20 | |
| 136 | Yes | Yes | No | 9.80 | |
| 138 | Yes | Yes | No | 39.22 | *Existing drainage; formerly part of UIC 67* |

### 6.4 Follow-up Actions

This analysis was done using tax lots with water wells as the boundary around which to place the 101-foot buffer for horizontal UIC's and 117-foot buffer for vertical and hybrid UIC's. The Groundwater Protectiveness Demonstration Model results yield a protective WMA boundary for Keizer UICs, this boundary has become the new standard for horizontal setbacks. This UIC analysis demonstrates that Keizer UIC registration has provided proven protectiveness, for all but two recently identified UIC's.

UIC 25 which falls within 101 feet setback of City owned Meadows Well. UIC 115 falls within the 101-foot setback however, it demonstrates safe vertical separation from groundwater resources, there is pre-treatment with vegetated stormwater facility and it is along a low traffic local street.

Keizer will continue to provide checks and balances for development and utilize the Groundwater Protectiveness Demonstration Model to provide protectiveness. The City will explore modifications to UIC 25 to protect our water resources. The City will seek to determine more accurate water well locations based upon neighboring jurisdictions' similar efforts.

# Section 7 – Prohibited UICs

## 7.1 Assessment Factor Discussion

Schedule B of the WPCF permit states that the Systemwide Assessment must include, *"An inventory of all injection systems that are prohibited by OAR 340-044-0015(2), which includes injection systems in vehicle maintenance areas, fuel dispensing areas, floor pits, non-vehicle maintenance facilities' floor drains, and fire station bay floor drain.".*

This section outlines the data and analysis used to determine which (if any) City UICs fall into one of the prohibited UIC categories above. All assessment data is included in Attachment A: Systemwide Assessment Data.

Prohibited UICs are those found in areas which contain concentrated pollutants, or which are subject to spills of pollutants or hazardous materials. All floor drains from these areas should be tied to sanitary sewer only. The analysis below covers all such areas owned or operated by the City.

## 7.2 Data Sources Used

Stormwater staff investigated all City properties which could have floor drains in prohibited situations. The following were analyzed:

- City Shop Facility – Site Visit and Plans Review
- City Parks Facility – Site Visit and Plans Review
- City Drinking Water Pump Stations – On Authority of the Public Works Director
- Keizer 1200Z – None in Keizer at the time of this Systemwide Assessment

The City does not own/operate the fire station, which is independently run as part of a separate Fire District. However, staff confirmed that building plans show no evidence of a bay drain UIC.

## 7.3 Findings

There was no evidence found of any prohibited UICs in City owned or operated facilities.

The City Shop facility is a single two-story metal building which does contain space on the ground floor to park and perform maintenance on City field vehicles. Plans confirm that the floor drains in this building run to the sanitary sewer.

The City Parks Facility stores materials such as gravel, bark and sand in outdoor storage piles confined by large concrete block walls. The lot is partially graveled. There are no floor drains within the outbuildings.

Some City Drinking Water Pump Stations have floor drains inside the buildings, all of which have been confirmed to be connected to the sanitary sewer.

Keizer has no active 1200-Z sites at this time.

### 7.4 Follow-up Actions

In 2010, the City began contracted services with a private Pipe Television and Inspection service to inspect UIC and MS4 stormwater pipes in Keizer. This has been and will continue to be an ongoing process to monitor the health of the public's stormwater assets, document any evidence of prohibited connections from sewer or from private floor drains and identify infrastructure repairs. Thus far, we have found evidence of one prohibited UIC

If staff discovers a prohibited area connected to a City UIC, Keizer will take action as per Schedule D (3) of the WPCF permit, which states:

*Reporting and Corrective Actions for Underground Injection Systems Prohibited by OAR 340-044-0015.* *Within 24 hours of discovery, you must verbally or in writing provide DEQ with any information you have about prohibited underground injection systems. You must submit a written report within five days of discovery and take the following actions unless otherwise approved by DEQ:*

*a. To the extent practicable, you must temporarily divert the discharge away from the UIC within five days of discovering the UIC.*

*b. You must permanently close the prohibited injection systems as soon as practicable, with DEQ approval of work scope and schedule.*

# Section 8 – Industrial/Commercial Properties Posing Polluted Drainage Risk

## 8.1 Assessment Factor Discussion

Under Schedule B of the WPCF permit it states that the Systemwide Assessment must include, *"An inventory of all industrial facilities and commercial properties that pose a risk of pollutant discharge to injection systems that you own or operate".* This section explains the data, analysis, and findings for this category.

Assessing the potential for drainage from properties with higher risk of pollutant discharge is key to protecting City UICs from pollutant impacts. Stormwater runoff can carry pollutants to our waterways and groundwater, but runoff from commercial, industrial or sites using or storing hazardous materials have higher potential to contribute pollutants and should be noted and assessed.

All assessment data is included in Attachment A: Systemwide Assessment Data. Further information on this analysis may also be found in Appendix B: Commercial/Industrial Discharge Potential Analysis Result.

## 8.2 Data Sources Used

A desktop analysis in ArcGIS was performed to determine all commercial, industrial and SARA sites in Keizer. SARA Site Data for this analysis was pulled from DEQ Environmental cleanup site information, January 2025.

Tax lots zoned Commercial and Industrial were mapped and spatially analyzed for pollution sources and pathways. The Stormwater Inspection and Maintenance (SWIM) UIC System dataset includes UIC inlets, pipes, once these tax lots were mapped, staff used UIC drainage intake points, impervious surfaces, curb lines, MS4-connected pipes and aerial photos to perform a desktop analysis. Each SARA, Commercial or Industrial tax lot was analyzed to determine which, if any UICs could receive drainage from these tax lots.

## 8.3 Findings

SARA Listed Properties with the Potential to Discharge

A total of 2 UICs could be impacted by current DEQ SARA listed sites. These UICs include the following: UIC 11 & 76. We also contacted Keizer Fire District for an updated list of reportable quantities of hazardous material locations within Keizer city limits, these locations were mapped and recorded in our files for reference and use for public outreach and education. We will continue to access and observe these sites for compliance and protection of our water resources.

| SARA Sites Which Could Discharge to UIC | | |
|---|---|---|
| **Business Name:** | **Tax lot** | **Potential UIC Impact** |
| 4845 Verda LLC | 073W02AA03000 | UIC 11 |
| Mancher Properties | 073W02CC09400 | UIC 76 |

| Hazardous Quantities Potential Discharge to UIC | | |
|---|---|---|
| **Business Name:** | **Tax lot** | **Potential UIC Impact** |
| G&S Machine | 073W11BD00600 | UIC 97 |
| Loren's Sanitation | 073W03BA02100 | UIC 5, 16, 18, 19, 110 |
| Meadows Pump Station | 063W26AD01500 | UIC 25 |
| Reitz Pump Station | 063W23DC02200 | UIC 67, 69, 114, 132, 138 |
| New Cingular Wireless | 063W23DC01700 | UIC 108, 114, 132, 138 |
| Salem Electric | 073W11AB01300 | UIC 51 |
| BPA | 063W36BA00100 | UIC 135 |
| New Cingular Wireless | 063W36CA01000 | UIC 90 |
| Sherwin Williams | 073W02BC08600 | UIC 10 |
| Jiffy Lube | 073W02BD02100 | UIC 10, 93 |
| Cascade Farm Auto | 073W02BB00400 | UIC 12, 72, 93 |
| Daljit Inc. | 073W02CB04200 | UIC 38, 43, 44, 45, 46, 47, 76 |
| O'Reilly Auto Parts | 073W02CC00600 | UIC 76 |
| BiMart | 073W11BB02000 | UIC 57 |
| Salem Golf Cart | 073W11AC06800 | UIC 56, 101, 137 |

** UIC's which receive drainage from City owned or operated property containing hazardous materials are UIC 25,* 67, 69, 114, 132, 138 *at the Meadows Pump Station and Reitz Pump Station. The Public Works Director confirmed that these materials are stored properly in an isolated area that cannot reach the UIC.*

Other Commercial/Industrial Properties with the Potential to Discharge

There was a total of 142 industrial and commercial tax lots which fell within the range of the drainage areas of 21 UICs. Of these tax lots, 58 were industrial and 84 commercial. The analysis used to determine whether drainage from these properties could conceivably reach a UIC was purposefully broad, in order to catch all conceivable properties of concern.

For detailed data on the entire analysis, see Attachment B: Commercial/Industrial Discharge Potential Analysis Results.

### 8.4 Follow-up Actions

Keizer will continue to have routine surveillance of properties which have the potential to discharge. The properties listed above will be closely analyzed to determine the actual level of risk and targeted outreach efforts. The City will consider these sites as we create our future monitoring plans. See Section 6 of the UICMP for details on BMPs directly related to this assessment factor.

# Appendix A

**Systemwide Assessment Data**

Vehicle Trips Per Day

City of Keizer Transportation System Plan (TSP)

# Systemwide Assessment Data

| | Sched. B - 1.a | | Sched. B - 1.b | Sched. B - 1.c | Sched. B - 1.d | Sched. B - 1.e | Sched. B - 1.f |
|---|---|---|---|---|---|---|---|
| UIC # | Latitude | Longitude | Trips per Day | Direct Discharge GW | Setback (Feet) | Prohibited | Land Use |
| 1 | 44.994 | -123.018 | 66.99 | No | 97 | No | RSF |
| 2 | 44.998 | -123.013 | 660.33 | No | 208 | No | RSF |
| 3 | 44.999 | -123.013 | 660.33 | No | 426 | No | RSF |
| 4 | 45.000 | -123.015 | 660.33 | No | 860 | No | RSF |
| 5 | 45.000 | -123.015 | 660.33 | No | 886 | No | RSF |
| 7 | 44.996 | -123.030 | 827.39 | No | 800 | No | CO/ RMS |
| 8 | 45.022 | -123.022 | 622.05 | No | 420 | No | RSF |
| 9 | 45.001 | -123.036 | 76.56 | No | 440 | No | RSF |
| 10 | 44.993 | -123.022 | 573.61 | No | 188 | No | CO/ CMU/ RSF |
| 11 | 44.999 | -123.031 | 165.75 | No | 796 | No | RSF |
| 12 | 44.998 | -123.030 | 153.12 | No | 684 | No | RSF |
| 13 | 45.000 | -123.039 | 204.75 | No | 217 | No | RSF |
| 14 | 45.002 | -123.049 | 1,600-10,000 | No | 488 | No | RSF |
| 15 | 44.997 | -123.050 | 1,600-10,000 | No | 200 | No | RSF |
| 16 | 44.995 | -123.044 | 1,600-10,000 | No | 596 | No | RSF |
| 17 | 44.992 | -123.028 | 421.08 | No | 116 | No | CO/ RSF |
| 18 | 44.997 | -123.045 | 1,600-10,000 | No | 705 | No | RSF |
| 19 | 44.999 | -123.042 | 369.04 | No | 821 | No | RMD |
| 20 | 45.000 | -123.039 | 440.22 | No | 217 | No | RSF |
| 21 | 44.998 | -123.011 | 7,000-20,000 | No | 178 | No | RSF/ RMD/ RMLU |
| 23 | 45.028 | -123.013 | 1177.11 | No | 70 | No | RSF |
| 24 | 45.028 | -123.010 | 392.37 | No | 545 | No | RSF |
| 25 | 45.023 | -123.014 | 15,000-50,000 | No | 130 | No | RSF |
| 27 | 45.033 | -123.011 | 19.14 | No | 350 | No | RSF |
| 28 | 45.034 | -123.011 | 267.96 | No | 355 | No | RSF |
| 30 | 44.990 | -123.037 | 1,600-10,000 | No | 780 | No | RSF |
| 31 | 44.995 | -123.037 | 153.12 | No | 410 | No | RSF |
| 32 | 44.991 | -123.036 | 239.25 | No | 348 | No | RSF |
| 34 | 44.984 | -123.030 | 1,600-10,000 | No | 617 | No | RSF |
| 35 | 44.984 | -123.030 | 1,600-10,000 | No | 730 | No | RSF |
| 36 | 44.980 | -123.020 | 248.82 | No | 147 | No | RSF |
| 38 | 44.989 | -123.025 | 239.25 | No | 127 | No | RSF |
| 39 | 44.989 | -123.023 | 239.25 | No | 183 | No | RSF |
| 40 | 44.995 | -123.018 | 76.56 | No | 155 | No | RSF |
| 41 | 45.000 | -123.015 | 660.33 | No | 795 | No | RSF |

| | Sched. B - 1.a | | Sched. B - 1.b | Sched. B - 1.c | Sched. B - 1.d | Sched. B - 1.e | Sched. B - 1.f |
|---|---|---|---|---|---|---|---|
| UIC # | Latitude | Longitude | Trips per Day | Direct Discharge GW | Setback (Feet) | Prohibited | Land Use |
| 43 | 44.989 | -123.029 | 19.14 | No | 388 | No | RSF |
| 44 | 44.990 | -123.029 | 153.12 | No | 419 | No | RMD |
| 45 | 44.990 | -123.029 | 1,600-10,000 | No | 478 | No | RMD |
| 46 | 44.990 | -123.029 | 1,600-10,000 | No | 456 | No | RMD |
| 47 | 44.990 | -123.028 | 1,600-10,000 | No | 644 | No | RSF |
| 48 | 44.991 | -123.030 | 363.66 | No | 596 | No | RSF |
| 49 | 44.991 | -123.030 | 363.66 | No | 579 | No | RSF |
| 50 | 44.988 | -123.017 | 497.64 | No | 302 | No | RSF |
| 51 | 44.984 | -123.019 | 1,600-10,000 | No | 73 | No | RSF/ RLD |
| 53 | 44.984 | -123.017 | 105.27 | No | 289 | No | RSF |
| 54 | 44.984 | -123.024 | 1,600-10,000 | No | 109 | No | RSF/ RMD/ MU |
| 55 | 45.000 | -123.039 | 851.73 | No | 344 | No | RSF |
| 56 | 44.978 | -123.019 | 1,600-10,000 | No | 170 | No | IU |
| 57 | 44.981 | -123.022 | 129.28 | No | 282 | No | RSF |
| 58 | 44.982 | -123.019 | 114.84 | No | 160 | No | RSF |
| 59 | 44.982 | -123.018 | 76.56 | No | 140 | No | RSF |
| 60 | 44.980 | -123.012 | 210.54 | No | 406 | No | RSF |
| 61 | 44.981 | -123.012 | 373.23 | No | 214 | No | RMD |
| 62 | 44.993 | -123.032 | 114.84 | No | 561 | No | RSF |
| 63 | 44.995 | -123.032 | 774.48 | No | 685 | No | RSF |
| 64 | 44.995 | -123.031 | 774.48 | No | 773 | No | RSF |
| 65 | 44.995 | -123.030 | 774.48 | No | 978 | No | RSF/ RMD |
| 66 | 44.990 | -123.025 | 1406.06 | No | 295 | No | CO/ MU/ RMD |
| 67 | 45.031 | -123.024 | 1177.11 | No | 68 | No | RSF |
| 69 | 45.032 | -123.024 | 803.88 | No | 84 | No | RSF |
| 72 | 44.996 | -123.029 | 741.8 | No | 1031 | No | CO/ RMD |
| 76 | 44.988 | -123.028 | 421.08 | No | 464 | No | RSF |
| 79 | 44.989 | -123.035 | 296.67 | No | 678 | No | RSF |
| 81 | 45.000 | -123.022 | 459.36 | No | 420 | No | RSF |
| 82 | 45.017 | -123.010 | 47.85 | Yes | 1697 | No | RSF |
| 83 | 44.999 | -123.020 | 114.84 | No | 627 | No | RSF |
| 84 | 44.995 | -123.018 | 95.7 | No | 95 | No | RSF |
| 88 | 44.998 | -123.050 | 527.2 | No | 720 | No | RSF |
| 89 | 44.992 | -123.031 | 229.68 | No | 934 | No | RSF |
| 90 | 45.005 | -123.005 | 7,000-20,000 | No | 96 | No | MU |
| 91 | 45.034 | -123.013 | 717.75 | No | 408 | No | RLD |
| 92 | 44.995 | -123.032 | 86.13 | No | 673 | No | RSF |
| 93 | 44.996 | -123.027 | 942.76 | No | 957 | No | CMU/ CLU/ |

| | Sched. B - 1.a | | Sched. B - 1.b | Sched. B - 1.c | Sched. B - 1.d | Sched. B - 1.e | Sched. B - 1.f |
|---|---|---|---|---|---|---|---|
| UIC # | Latitude | Longitude | Trips per Day | Direct Discharge GW | Setback (Feet) | Prohibited | Land Use |
| | | | | | | | RMD |
| 94 | 44.995 | -123.050 | 478.5 | No | 128 | No | RSF |
| 95 | 44.997 | -123.008 | 655.12 | No | 377 | No | RSF/ P |
| 96 | 44.996 | -123.019 | 16 | No | 443 | No | P |
| 97 | 44.979 | -123.023 | 15,000-50,000 | No | 234 | No | CR/ CG/ IBP |
| 99 | 45.037 | -123.016 | 28.71 | No | 64 | No | UT |
| 100 | 44.995 | -123.028 | 774.48 | No | 860 | No | RMD |
| 101 | 44.979 | -123.016 | 1,600-10,000 | No | 354 | No | IG/ RMD |
| 103 | 45.014 | -123.007 | 1,600-10,000 | No | 940 | No | RSF |
| 104 | 44.999 | -123.037 | 957 | No | 557 | No | RSF |
| 105 | 45.000 | -123.015 | 660.33 | No | 886 | No | RSF |
| 107 | 45.003 | -123.008 | 7,000-20,000 | No | 81 | No | RSF |
| 108 | 45.028 | -123.025 | 1244.1 | No | 193 | No | RSF |
| 110 | 44.997 | -123.046 | 1,600-10,000 | No | 500 | No | RSF |
| 111 | 44.994 | -123.012 | 7,000-20,000 | No | 162 | No | RSF |
| 112 | 45.002 | -123.008 | 7,000-20,000 | No | 1 | No | RSF |
| 113 | 45.009 | -123.017 | 1,000-1,600 | No | 463 | No | RSF |
| 114 | 45.030 | -123.020 | <1,000 | No | 297 | No | RSF |
| 115 | 45.002 | -123.049 | <1,000 | No | 130 | No | RSF |
| 116 | 45.032 | -123.012 | <1,000 | No | 213 | No | RSF |
| 117 | 45.023 | -123.025 | <1,000 | No | 75 | No | RSF |
| 118 | 45.003 | -123.053 | <1,000 | No | 130 | No | RSF |
| 119 | 45.007 | -123.017 | <1,000 | No | 678 | No | RSF |
| 120 | 44.996 | -123.032 | <1,000 | No | 594 | No | RSF |
| 121 | 45.035 | -123.016 | 1,600-10,000 | No | 142 | No | RSF |
| 122 | 45.002 | -123.007 | 7,000-20,000 | No | 48 | No | RSF |
| 123 | 45.031 | -123.011 | 1,000-1,600 | No | 91 | No | UT |
| 124 | 45.001 | -123.020 | <1,000 | No | 131 | No | RSF |
| 125 | 44.995 | -123.051 | <1,000 | No | 1350 | No | RSF |

# Appendix B

Commercial & Industrial Discharge Potential

Analysis Results

**Commercial/Industrial Properties with the Potential to Discharge**

There are a total of 142 tax lots that fall within range of 21 UICs (UIC 7, 10, 12, 16, 17, 18, 19, 54, 56, 57, 66, 72, 76, 90, 93, 97, 101, 127, 129, 134, 137). Of these tax lots, 58 are industrial and 84 commercial. Land use definitions: MU-Mixed Use Commercial, CG-Commercial General, IBP-Industrial Business Park IG-Industrial General. Results are as follows:

UIC 7

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 7 | MU | 073W02BB06000 | 4952 ELIZABETH ST N | Within 500 ft of parcel on Fire District List |
| 7 | MU | 073W02BB05900 | 4954 ELIZABETH ST N | Within 500 ft of parcel on Fire District List |
| 7 | MU | 073W02BB05800 | 351 JANET AV N | Within 500 ft of parcel on Fire District List |

UIC 10

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 10 | MU | 073W02CA04100 | 4600 RIVER RD N | Along major arterial |
| 10 | MU | 073W02CA04000 | 4630 RIVER RD N | Along major arterial |
| 10 | MU | 073W02BD13100 | 4690 RIVER RD N | Along major arterial |
| 10 | MU | 073W02BD08000 | 524 LINDA AV NE | Within 500 ft of parcel on Fire District List |
| 10 | MU | 073W02BD07900 | 4710 RIVER RD N | Along major arterial |
| 10 | MU | 073W02BD07700 | 513-593 LINDA AV NE | Within 500 ft of parcel on Fire District List |
| 10 | MU | 073W02BD07800 | 4720-4754 RIVER RD N | Along major arterial |
| 10 | MU | 073W02BD05900 | 590-592 DEARBORN AV N | Along collector |

UIC 12

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 12 | MU | 073W02BB00400 | 5001-5099 RIVER RD N | Within 500 ft of parcel on Fire District List |

UIC 16

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 16 | CG | 073W03BA01600 | 5015 WINDSOR ISLAND | Along collector |
| 16 | CG | 073W03BA01500 | 5045 WINDSOR ISLAND | Along collector |
| 16 | CG | 073W03BA01400 | NA | |
| 16 | CG | 073W03BA01700 | NA | |
| 16 | CG | 073W03BA01800 | 1091 CHEMAWA RD N | Along minor arterial |

## UIC 17

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 17 | MU | 073W02BC08200 | 4669 RIVER RD N | Within 500 ft of parcel on Fire District List |

## UIC 18

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 18 | CG | 073W03BA02100 | 1141 CHEMAWA RD | Within 500 ft of parcel on Fire District List |
| 18 | CG | 073W03BA02000 | 1121 CHEMAWA RD | Within 500 ft of parcel on Fire District List |

## UIC 19

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 19 | CG | 073W03BA02100 | 1141 CHEMAWA RD | Along collector |
| 19 | CG | 073W03BA01400 | NA | |

## UIC 54

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 54 | MU | 073W11BA03100 | 3980 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 54 | MU | 073W11BA02700 | 3990 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 54 | MU | 073W11BA02800 | 1008 ALDER DR NE | Along collector |
| 54 | MU | 073W11BA02900 | 1078-1080 ALDER DR | Along collector |
| 54 | MU | 073W11BA03000 | 1098 ALDER DR NE | Along collector |
| 54 | MU | 073W11BA02600 | 945 ALDER DR NE | Along collector |

## UIC 56

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 56 | IG | 073W11AC06500 | 3601 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC06400 | 3621 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC06300 | 3641 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC06200 | 3661 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC06100 | 3662 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC06000 | 3642 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC05900 | 3622 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IG | 073W11AC05800 | 3602 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 56 | IBP | 073W11AC06600 | 1125 CANDLEWOOD D | Within 500 ft of parcel on Fire District List & Along collector |

| | | | | |
|---|---|---|---|---|
| 56 | IG | 073W11AC05700 | 1195 CANDLEWOOD D | Within 500 ft of parcel on Fire District List & Along collector |

## UIC 57

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 57 | IBP | 073W11BD01100 | NA | Within 500 ft of parcel on Fire District List |

## UIC 66

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 66 | MU | 073W02CA08101 | 530-550 DIETZ AV NE | Within 500 ft of parcel on Fire District List |
| 66 | MU | 073W02CA08102 | NA | Within 500 ft of parcel on Fire District List |
| 66 | MU | 073W02CA08200 | 4510 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |

## UIC 72

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 72 | MU | 073W02BB05700 | 291 JANET AV N | Within 500 ft of parcel on Fire District List |
| 72 | MU | 073W02BB05600 | 271 JANET AV N | Within 500 ft of parcel on Fire District List |
| 72 | MU | 073W02BB05500 | 251 JANET AV N | Within 500 ft of parcel on Fire District List |
| 72 | MU | 073W02BB05800 | 351 JANET AV N | Within 500 ft of parcel on Fire District List |
| 72 | MU | 073W02BB03300 | 388-392 CHEMAWA RD | Along minor arterial |
| 72 | MU | 073W02BB03400 | 170 CHEMAWA RD N | Along minor arterial |
| 72 | MU | 073W02BB03900 | 140-168 CHEMAWA RD | Along minor arterial |
| 72 | MU | 073W02BB05400 | 201 JANET AV N | Within 500 ft of parcel on Fire District List |

## UIC 76

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 76 | MU | 073W02CC00400 | 4335 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 76 | MU | 073W02CB04800 | 4365 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 76 | MU | 073W02CB04600 | 131-159 MENLO DR N | Within 500 ft of parcel on Fire District List |
| 76 | MU | 073W02CB04500 | 4415-4435 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 76 | MU | 073W02CB04400 | 4465-4475 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 76 | MU | 073W02CB04000 | 180-182 CUMMINGS LN | Within 500 ft of parcel on Fire District List & Along collector |
| 76 | MU | 073W02CB04100 | 180-182 CUMMINGS LN | |

## UIC 90

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 90 | CO | 063W36CB00401 | 5775 MCLEOD LN NE | Along collector |
| 90 | MU | 063W36CA01000 | 5405 RIDGE DR NE | Within 500 ft of parcel on Fire District List |
| 90 | MU | 063W36CA02100 | 2290 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CA02700 | 2200 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CA02800 | 2230 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CA03000 | 2115 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CA03100 | 5620 MCLEOD LN NE | Along collector |
| 90 | MU | 063W36CA03200 | 2125 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CA03401 | NA | |
| 90 | MU | 063W36CA03501 | NA | |
| 90 | MU | 063W36CA03600 | 5410-5500 MCLEOD LN | Within 500 ft of parcel on Fire District List & Along collector |
| 90 | MU | 063W36CA03700 | NA | |
| 90 | MU | 063W36CB00100 | 5660 MCLEOD LN NE | Within 500 ft of parcel on Fire District List & Along collector |
| 90 | MU | 063W36CB00400 | 5615 MCLEOD LN NE | Within 500 ft of parcel on Fire District List & Along collector |
| 90 | MU | 063W36CB00402 | 5625 MCLEOD LN NE | Within 500 ft of parcel on Fire District List & Along collector |
| 90 | MU | 063W36CB00403 | 2045 CHEMAWA RD NE | Along minor arterial |
| 90 | MU | 063W36CB09100 | 5425-5495 MCLEOD LN | Within 500 ft of parcel on Fire District List & Along collector |
| 90 | MU | 063W36CB09200 | 5525 MCLEOD LN NE | Within 500 ft of parcel on Fire District List & Along collector |

## UIC 93

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 93 | MU | 073W02BC00300 | 4905 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BC00200 | 4907 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BC00100 | 4915 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BB05000 | 4925 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BB04900 | 4943 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BB04700 | 4953 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BB04800 | 4957 RIVER RD N | Within 500 ft of parcel on Fire District List & Along major arterial |
| 93 | MU | 073W02BB05300 | 4950-4954 WOLF ST N | Within 1000 ft of parcel on Fire District List |

| | | | | |
|---|---|---|---|---|
| 93 | MU | 073W02BB05200 | 4940 WOLF ST N | Within 1000 ft of parcel on Fire District List |
| 93 | MU | 073W02BB05100 | 4930 WOLF ST N | Within 1000 ft of parcel on Fire District List |
| 93 | MU | 073W02BC00500 | 4920 WOLF ST N | Within 1000 ft of parcel on Fire District List |
| 93 | MU | 073W02BC00400 | 145-195 CHURCHDALE | Within 500 ft of parcel on Fire District List |

## UIC 97

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 97 | MU | 073W11BD08400 | 741-743 BEVER DR NE | Within 500 ft of parcel on Fire District List |
| 97 | MU | 073W11BD08300 | 3705 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 97 | MU | 073W11BD00500 | 3710-3730 CHERRY AV | Within 500 ft of parcel on Fire District List & Along major arterial |
| 97 | MU | 073W11BD08200 | 3701 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 97 | MU | 073W11BD00600 | 3708 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 97 | MU | 073W11BD00700 | 3704 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 97 | MU | 073W11BD00800 | 1025 SHADY LN NE | Within 500 ft of parcel on Fire District List |

## UIC 101

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 101 | IG | 073W11AC05400 | 3603-3613 CANDLEWOOD CT | Adjacent to collector & Industrial adjacent |
| 101 | IG | 073W11AC05300 | 3623-3633 CANDLEWOOD CT | Adjacent to collector & Industrial adjacent |
| 101 | IG | 073W11AC05200 | 3643-3647 CANDLEWOOD CT | Adjacent to collector & Industrial adjacent |
| 101 | IG | 073W11AC05000 | 3664 CANDLEWOOD CT | Adjacent to collector & Industrial adjacent |
| 101 | IG | 073W11AC04900 | 3624-3634 CANDLEWOOD CT | Adjacent to collector & Industrial adjacent |
| 101 | IG | 073W11AC04800 | 3624-3634 CANDLEWOOD CT | Adjacent to collector & & Industrial adjacent |
| 101 | IG | 073W11AC04700 | 3604-3614 CANDLEWOOD CT | Adjacent to collector & & Industrial adjacent |
| 101 | IG | 073W11AC04600 | 1255 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AC07700 | 1256 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AC07800 | 1302 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AC07900 | 1310 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AC05500 | 1225 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AC03500 | 1300 SHADY LN NE | Industrial adjacent |
| 101 | IG | 073W11AC03600 | 1310 SHADY LN NE | Industrial adjacent |
| 101 | IG | 073W11AC03700 | 1320 SHADY LN NE | Industrial adjacent |
| 101 | IG | 073W11AC04201 | 3645 BROOKS AV NE | Industrial adjacent |
| 101 | IG | 073W11AC04400 | 1315 CANDLEWOOD DR | Along collector |
| 101 | IG | 073W11AD01801 | 1330 CANDLEWOOD DR | Along collector |

## UIC 127

| UIC # | Land | Taxlot # | Address | Potential |
|---|---|---|---|---|

| | Use | | | |
|---|---|---|---|---|
| 127 | MU | 073W11BD08200 | 3701 CHERRY AV NE | Within 500 ft of parcel on Fire District List |

## UIC 129

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 129 | IG | 073W11AD02000 | 1335 CANDLEWOOD | Along collector & Industrial adjacent |
| 129 | IG | 073W11AC04400 | 1315 CANDLEWOOD | Along collector & Industrial adjacent |
| 129 | IG | 073W11AD02700 | 3627 BROOKS | Along collector & Industrial adjacent |
| 129 | IG | 073W11AD02200 | 1345 CANDLEWOOD | Along collector & Industrial adjacent |

## UIC 134

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 134 | IBP | 073W11AC06700 | 1130 CANDLEWOOD DR | Within 500 ft of parcel on Fire District List & Along collector |
| 134 | IBP | 073W11BD02900 | 3570 CHERRY AV NE | Within 500 ft of parcel on Fire District List & Along major arterial |
| 134 | IBP | 073W11AC06800 | 1140-1150 CANDLEWOOD DR NE | Within 500 ft of parcel on Fire District List & Along collector |

## UIC 137

| UIC # | Land Use | Taxlot # | Address | Potential |
|---|---|---|---|---|
| 137 | IG | 073W11AC05700 | 1195 CANDLEWOOD DR | Within 500 ft of parcel on Fire District List & Along collector |
| 137 | IG | 073W11AC05600 | 1205 CANDLEWOOD DR | Within 500 ft of parcel on Fire District List & Along collector |
| 137 | IG | 073W11AC06100 | 3662 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 137 | IG | 073W11AC06000 | 3642 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 137 | IG | 073W11AC05900 | 3622 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |
| 137 | IG | 073W11AC05800 | 3602 CHERRYLAWN CT | Within 500 ft of parcel on Fire District List |