



Source Water Assessment

A Hydrogeologic Susceptibility and
Vulnerability Assessment for
Mayflower Trailer Court,
Anchorage, Alaska
PWSID # 211619.001

DRINKING WATER PROTECTION PROGRAM REPORT 752

Alaska Department of Environmental Conservation

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The Drinking Water Protection Program is producing Source Water Assessments in compliance with the Safe Drinking Water Act Amendments of 1996. Each assessment includes a delineation of the source water area, an inventory of potential and existing contaminant sources that may impact the water, a risk ranking for each of these contaminants, and an evaluation of the potential vulnerability of these drinking water sources.

These assessments are intended to provide public water systems owners/operators, communities, and local governments with the best available information that may be used to protect the quality of their drinking water. The assessments combine information obtained from various sources, including the U.S. Environmental Protection Agency, Alaska Department of Environmental Conservation (ADEC), public water system owners/operators, and other public information sources. The results of this assessment are subject to change if additional data becomes available. If you have any additional information that may affect the results of this assessment, please contact the Program Coordinator of DWPP, (907) 269-7521.

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Source Water Assessment for Mayflower Trailer Courts Source of Public Drinking Water, Anchorage, Alaska

Drinking Water Protection Program Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

The public water system for Mayflower Trailer Courts is a Class A (community) water system consisting of one well in the Anchorage area. Identified potential and current sources of contaminants for Mayflower Trailer Courts include: sewer lines, residential areas, roads, underground storage tanks, ADEC Recognized Contaminated Sites, Leaking Underground Storage Tanks (LUST) sites, various commercial and industrial activities. These identified potential and existing sources of contamination are considered sources of bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals and other organic chemicals. Overall, Mayflower Trailer Courts received a vulnerability rating of **Medium** for bacteria and viruses, volatile organic chemicals, synthetic organic chemicals, other organic chemicals and **High** for nitrates/nitrites and inorganic chemicals.

INTRODUCTION

The Alaska Department of Environmental Conservation (ADEC) is completing source water assessments for all public drinking water sources in the State of Alaska. The purpose of this assessment is to provide public water system owners and/or operators, communities, and local governments with information they can use to preserve the quality of Alaska's public drinking water supplies. The results of this source water assessment can be used to decide where voluntary protection efforts are needed and feasible, and what efforts will be most effective in reducing contaminant risks to your water system.

This source water assessment combines a review of the natural conditions at the site and the potential and existing contaminant risks. These are combined to determine the overall vulnerability of the drinking water source to contamination.

DESCRIPTION OF THE ANCHORAGE AREA, ALASKA

Location

Anchorage, located in south-central Alaska, encompasses 1,698 square miles of land and 264 square miles of water. The area containing a majority of the urban development, commonly referred to as the Anchorage Bowl, encompasses approximately 180 square miles [Partick, Brabets, and Glass, 1989] and envelopes the low lands of the area. This area is bounded on the east by the Chugach Mountains and the north, west, and south by the Knik and Turnagain Arm of Cook Inlet (Figure 1). In recent times, urban development has extended eastward along the flanks of the Chugach Mountains. This area, known locally as the Anchorage Hillside, contains development at elevations exceeding 3,700 feet in elevation above sea level.



Figure 1. Index map showing the location of Anchorage, Alaska

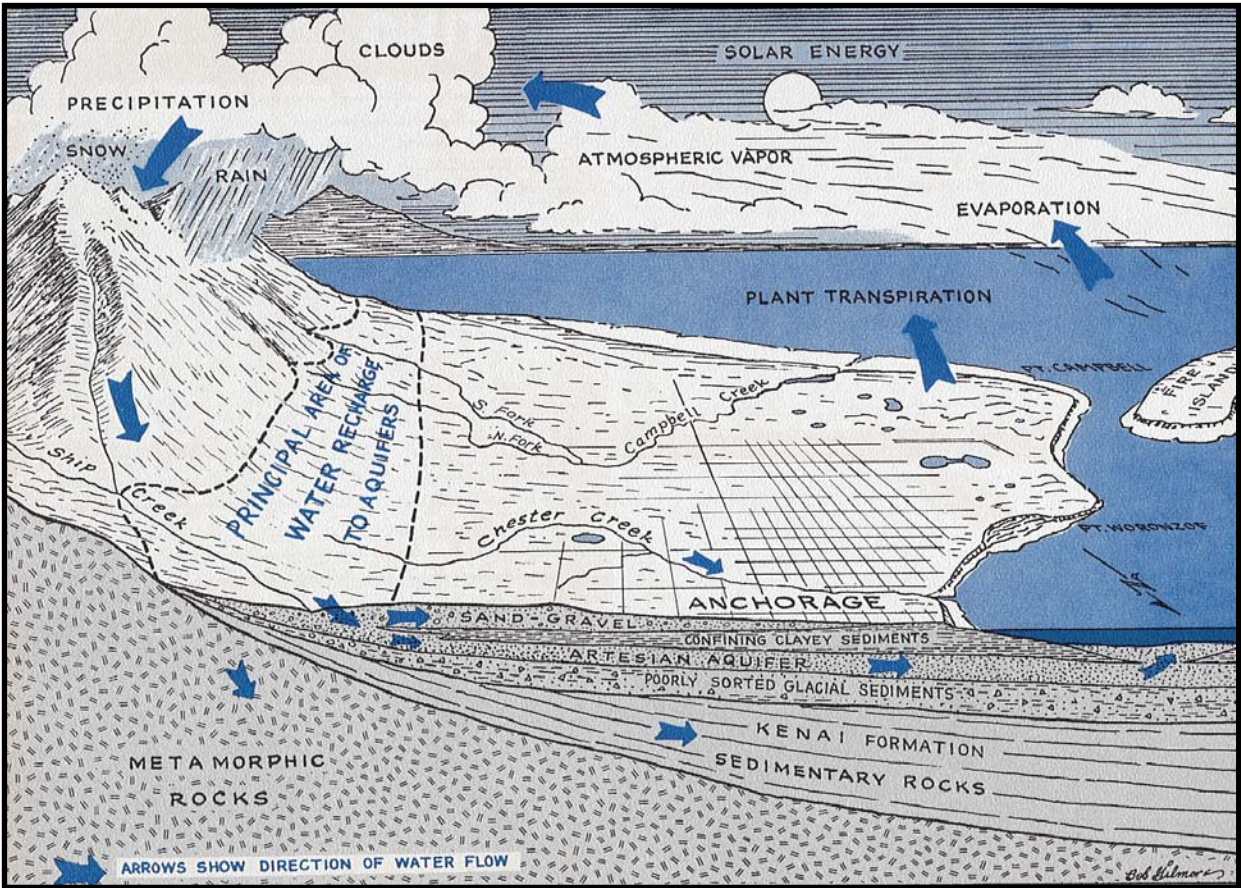


Figure 2. Generalized hydrologic cycle in the Anchorage area [Barnwell, George, Dearborn, Weeks, and Zenone, 1972].

Climate

The Anchorage area climate is somewhat transitional in that it does not experience large daily and annual temperature fluctuations like those experienced in the interior of Alaska nor does it experience high amounts of precipitation typified by gulf coast regions. Mean annual precipitation at the Anchorage International Airport is approximately 16 inches per year. On average, Anchorage receives a total snow accumulation of 69 inches per year. Precipitation generally increases inland toward the Chugach Mountains where annual precipitation may exceed 160 inches per year [Barnwell, George, Dearborn, Weeks, and Zenone, 1972]. Mean daily temperature ranges from 65° F during July to 8° F in January [Western Regional Climate Center, 2000].

Physiography and Groundwater Conditions

Surface elevations in the Anchorage area range from sea level at Knik and Turnagain Arms to well over 5,000 feet in the peaks that bound the area. Glacial moraine and outwash deposits primarily mantle the surface of the Anchorage Bowl.

The backbone of the Chugach Mountains is composed primarily of metamorphic marine and volcanic rocks (bedrock). These high peaks that bound Anchorage’s east side are flanked with colluvium or slope deposits. These slope deposits eventually grade into the glacial and stream deposits at lower elevations in the Anchorage Bowl.

In the Anchorage area, two principal groundwater flow systems or aquifers exist (see Figure 2). The upper unconfined aquifer or water-table aquifer is separated from a lower confined aquifer system by layers of silty, clayey glacially derived sediments (confining layer) [Ulery and Updike, 1983]. The lower confined aquifer system consists of a series of hydrologically interconnected layers and lenses of gravel, sand and silt that, collectively, form the confined aquifer. The confining layer ranges from 0 to 270 feet thick throughout the Anchorage area and generally thins with increasing distance from Cook Inlet, thus pinching out at the mountain front [Patrick, Brabets, and Glass, 1989].

Water enters or recharges these two aquifer systems in several different ways. Along the front of the Chugach Mountains, groundwater seeps from fractures in

bedrock into the sediments. At these higher elevations, rain and snowmelt also enters the sediments. This area along the mountain front is considered the principal recharge area for wells in the Anchorage area. Precipitation in the low lands may also percolate directly into the ground. Lastly, aquifers may also be recharged by streams where surface water percolates into surrounding permeable sediments (losing reaches of streams). Groundwater flow in the confined aquifer is generally east to west from the mountain front toward Cook Inlet and Turnagain Arm, except in areas where the direction of flow is influenced by large municipal or industrial production wells. The direction of groundwater flow in the upper unconfined aquifer is more variable due to the influence from surficial topography as well as its close connection with surface water bodies.

MAYFLOWER TRAILER COURTPUBLIC DRINKING WATER SYSTEM

Mayflower Trailer Courts is a Class A (community) water system. The system one well in the Anchorage area. (See Map 1 of Appendix A). This area is at an elevation of approximately 225 feet above sea level.

The 1996 Sanitary Survey indicates that the wells are installed with caps providing a sanitary seal. A properly installed sanitary seal may provide protection against contaminants from entering the source waters at the well casing. Due to the date that the well was installed it is suspected that the well was not grouted according to ADEC regulations. Proper grouting provides added protection against contaminants traveling along the well casing and into source waters.

The well log indicates that the depth of the well is 133 feet below the surface and the static water level at the time of drilling (1959) was 40 feet below the surface. The log indicates that the well and passes through clayey sand layer from 80-115 feet and clay from 115-132 feet below the surface. This confining layer may provide protection from contaminates entering the aquifer. However, the clay layers tend to thin out towards the mountains allowing contaminants that enter the subsurface near the base of the mountains to enter the confined aquifer uninhibited by the absence of any protective layer.

This system operates 365 days per year and serves 650 residents through 380 service connections.

MAYFLOWER TRAILER COURT PROTECTION AREA

In order to evaluate whether a drinking water source is at risk, we must first evaluate what are the most likely

pathways for surface contamination to reach the groundwater. Some areas are more likely to allow contamination to reach the well than others. These areas are determined by looking at the characteristics of the soil, groundwater, aquifer, and well.

The most probable area for contamination to reach the drinking water well is the area that contributes water to the well, the groundwater recharge area. This area is designated as the Drinking Water Protection Area (DWPA). Because releases of contaminants within the DWPA are most likely to impact the drinking water well, this area will serve as the focus for voluntary protection efforts.

An outline of the immediate watershed was used to determine the size and shape of the DWPA for Mayflower Trailer Court. Available geology was also considered to take into account any uncertainties in groundwater flow and aquifer characteristics to arrive at a meaningful DWPA (Please refer to the Guidance Manual for Class A Public Water Systems for additional information).

The DWPAs established for wells by the ADEC are usually separated into four zones, limited by the watershed. These zones correspond to differences in the time-of-travel (TOT) of the water moving through the aquifer to the well. An analytical calculation was used to determine the size and shape of the DWPA. The input parameters describing the attributes of the aquifer in this calculation were adopted from the U.S. Geological Survey (*Patrick, Brabets, and Glass, 1989*), and State of Alaska Department of Water Resources (*Jokela et. al., 1991*).

The time of travel for contaminants within the water varies and is dependent on the physical and chemical characteristics of each contaminant. The following is a summary of the four DWPA zones and the calculated time-of-travel for each:

Table 1. Definition of Zones

Zone	Definition
A	¼ the distance for the 2-yr. TOT
B	Less than the 2 year TOT
C	Less Than the 5 year TOT
D	Less than the 10 year TOT

INVENTORY OF POTENTIAL AND EXISTING CONTAMINANT SOURCES

The Drinking Water Protection Program has completed an inventory of potential and existing sources of contamination within Mayflower Trailer Courts DWPA. This inventory was completed through a

search of agency records and other publicly available information. Potential sources of contamination to the drinking water aquifer include a wide range of categories and types. Potential drinking water contaminants are found within agricultural, residential, commercial, and industrial areas, but can also occur within areas that have little or no development.

For the basis of all Class A public water system assessments, six categories of drinking water contaminants were inventoried. They include:

- Bacteria and viruses;
- Nitrates and/or nitrites;
- Volatile organic chemicals
- Heavy metals, cyanide, and other inorganic chemicals,
- Synthetic organic chemicals, and
- Other organic chemicals.

The sources are displayed on Maps 2 -6 in Appendix C and summarized in Table 1 of Appendix B.

RANKING OF CONTAMINANT RISKS

Once the potential and existing sources of contamination have been identified, they are assigned a ranking according to what type and level of risk they represent. Ranking of contaminant risks for a “potential” or “existing” source of contamination is a function of toxicity and volumes of specific contaminants associated with that source.

Tables 2 through 7 in Appendix B contain the ranking of potential and existing sources of contamination with respect to bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals, and other organic chemicals.

VULNERABILITY OF MAYFLOWER TRAILER COURTS DRINKING WATER SOURCE

Vulnerability of a drinking water source to contamination is a combination of two factors:

- Natural susceptibility; and
- Contaminant risks.

Each of the six categories of drinking water contaminants has been analyzed and an overall vulnerability score of 0 to 100 is ultimately assigned:

$$\begin{array}{r}
 \text{Natural Susceptibility (0 – 50 points)} \\
 + \\
 \text{Contaminant Risks (0 – 50 points)} \\
 =
 \end{array}$$

Vulnerability of the Drinking Water Source to Contamination (0 – 100). A score for the Natural Susceptibility is achieved by analyzing the properties of the well and the aquifer.

Susceptibility of the Wellhead (0 – 25 Points)

+

Susceptibility of the Aquifer (0 – 25 Points)

=

Natural Susceptibility (Susceptibility of the Well) (0 – 50 Points)

Table 2 shows the Susceptibility scores and ratings for the wells serving Mayflower Trailer Court.

Table 2. Susceptibility of the well

	Score	Rating
Susceptibility of the Wellhead	5	Low
Susceptibility of the Aquifer	7	Low
Natural Susceptibility	12	Low

Contaminant risks to a drinking water source depend on the type, number or density, and distribution of contaminant sources. This data has been derived from an examination of existing and historical contamination that has been detected at the drinking water source through routine sampling. It also evaluates potential sources of contamination. Table 3 summarizes the Contaminant Risks for each category of drinking water contaminants.

Table 3. Contaminant Risks

Category	Score	Rating
Bacteria and Viruses	35	High
Nitrates and/or Nitrites	49	Very High
Volatile Organic Chemicals	45	Very High
Heavy Metals, Cyanide, and Other Inorganic Chemicals	50	Very High
Synthetic Organic Chemicals	32	High
Other Organic Chemicals	32	High

Appendix D contains fourteen charts, which together form the ‘Vulnerability Analysis’ for a source water assessment for a public drinking water source. Chart 1 analyzes the ‘Susceptibility of the Wellhead’ to contamination by looking at the construction of the well and its surrounding area. Chart 2 analyzes the

‘Susceptibility of the Aquifer’ to contamination by looking at the naturally occurring attributes of the water source and influences on the groundwater system that might lead to contamination. Chart 3 analyzes ‘Contaminant Risks’ for the drinking water source with respect to bacteria and viruses. The ‘Contaminant Risks’ portion of the analysis considers potential sources of contaminants as well as a review of contamination that has or may have occurred, but has not arrived or been detected at the well. Lastly, Chart 4 contains the ‘Vulnerability Analysis for Bacteria and Viruses’. Charts 5 through 14 contain the Contaminant Risks and Vulnerability Analyses for nitrates and nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals, and other organic chemicals, respectively.

Table 4 contains the overall vulnerability scores (0 – 100) and ratings for each of the six categories of drinking water contaminants. Note: scores are rounded off to the nearest five.

Table 4. Overall Vulnerability

Category	Score	Rating
Bacteria and Viruses	45	Medium
Nitrates and Nitrites	60	High
Volatile Organic Chemicals	55	Medium
Heavy Metals, Cyanide and Other Inorganic Chemicals	60	High
Synthetic Organic Chemicals	45	Medium
Other Organic Chemicals	45	Medium

Bacteria and Viruses

The contaminant risk for bacteria and viruses is high with sewer lines presenting the most significant risk to the drinking water well (See Chart 3 – Contaminant Risks for Bacteria and Viruses in Appendix D).

Recent sampling of the well indicates that no bacteria and viruses have been detected. .

After combining the contaminant risk for bacteria and viruses with the natural susceptibility of the well, the overall vulnerability is medium.

Nitrates and Nitrites

The contaminant risk for nitrates and nitrites is very high with sewer lines presenting the most significant risk to the drinking water well.

Recent historical sampling data indicates that Nitrates were detected at 7% the maximum contaminant level (MCL) of 10 mg/l during the most recent sampling event (11/7/2001). (See Chart 5 – Contaminant Risks for Nitrates and/or Nitrites in Appendix D.) The MCL

is the maximum level of contaminant that is allowed to exist in drinking water and still be consumed by humans.

Nitrates and/or nitrites are found in natural background concentration at this site, as elsewhere in Alaska. Other sources of nitrate and/or nitrites are human sewage, livestock manure, especially from feedlots and fertilizers. Due to high solubility and weak retention by soil, nitrates are very mobile often moving at approximately the same rate as water. It is unknown whether the existing contamination is naturally occurring or human influenced. According to the Environmental Protection Agency (USEPA), short-term exposure to levels excessively above the MCL has caused serious illness and sometimes death. Serious illness in infants can occur due to the conversion of nitrate to nitrite by the body, which can interfere with the oxygen-carrying capacity of the child's blood. This can be an acute condition in which health deteriorates rapidly over a period of days. Symptoms include shortness of breath and blueness of the skin. Long term exposure to nitrates and nitrites at levels above the MCL can lead to diuresis, increased starchy deposits and hemorrhaging of the spleen (USEPA, 2001).

Because naturally occurring nitrate levels are typically less than 2 mg/l (or 20% the MCL), it is suspected that the nitrate levels detected are naturally occurring. (Wang, Strelakos, Jokela, 2000).

After combining the contaminant risk for nitrates and nitrites with the natural susceptibility of the well, the overall vulnerability of the well to contamination is high.

Volatile Organic Chemicals

The contaminant risk for volatile organic chemicals is very high with underground fuel tanks, ADEC contaminated site, motor vehicle repair shop and Leaking Underground Storage Tank (LUST) sites, presenting the most significant risk for volatile organic chemicals (See Chart 7 – Contaminant Risks for Volatile Organic Chemicals in Appendix D).

Recent sampling indicates that no volatile organic chemicals have been detected in the source waters.

After combining the contaminant risk for volatile organic chemicals with the natural susceptibility of the wells, the overall vulnerability of the wells to contamination is medium.

Heavy Metals, Cyanide, and Other Inorganic Chemicals

The contaminant risk for heavy metals, cyanide and other inorganic chemicals is very high with sewer lines, roads, and existing contamination presenting the most

significant risk to the drinking water source (See Chart 9 – Contaminant Risks for Heavy Metals, Cyanide, and Other Inorganic Chemicals in Appendix D).

Sampling on 10/14/99, indicates that arsenic was detected at 0.0116 mg/l (>100% of the current MCL of 0.01 mg/l) detected in source waters. See Chart 9 – Contaminant Risks for Heavy Metals and Other Inorganic Chemicals in Appendix D).

According to the EPA “Arsenic occurs naturally in rocks and soil, water, air, and plants and animals. It can be further released into the environment through natural activities such as volcanic action, erosion of rocks, and forest fires, or through human actions. Approximately 90 percent of industrial arsenic in the U.S. is currently used as a wood preservative, but arsenic is also used in paints, dyes, metals, drugs, soaps, and semi-conductors. Agricultural applications, mining, and smelting also contribute to arsenic releases in the environment.” (USEPA, 2001). It is likely that the arsenic detected is from natural sources.

Studies have linked long-term exposure to arsenic in drinking water to cancer of the bladder, lungs, skin, kidney, nasal passages, liver, and prostate. Non-cancer effects of ingesting arsenic include cardiovascular, pulmonary, immunological, neurological, and endocrine (e.g., diabetes) effects. Short-term exposure to high doses of arsenic can cause other adverse health effects, but such effects are unlikely to occur from U.S. public water supplies that are in compliance with the previous arsenic standard of 50 ppb. (USEPA, 2001).

In addition, barium was detected 10/14/99 at very low levels.

Barium is a lustrous, machinable metal, which exists in nature in ores containing mixtures of elements. It is used in making a wide variety of electronic components, in metal alloys, bleaches, dyes, fireworks, ceramics and glass. In particular, it is used in well drilling operations where it is directly released into the ground (USEPA, 2002). It is suspected the barium detected is from natural sources.

Combining the contaminant risk with the natural susceptibility of the wells leads to an overall vulnerability to heavy metals and other inorganic chemical contamination of high.

Synthetic Organic Chemicals

The contaminant risk for synthetic organic chemicals is high with sewer lines and chemical storage sites presenting the most significant risk. (See Chart 11 – Contaminant Risks for Synthetic Organic Chemicals in Appendix D, respectively).

Sampling of synthetic organic chemicals has not occurred.

Combining the contaminant risk with the natural susceptibility of the wells, the overall vulnerability to synthetic organic chemicals is medium.

Other Organic Chemicals

The contaminant risk for other organic chemicals is high sewer lines, roads and asphalt/tar processing presenting the most significant risk.

Sampling of other organic chemicals has not occurred. After combining the contaminant risk with the natural susceptibility of the wells, the overall vulnerability to other organic chemicals is medium. (See Chart 13 – Contaminant Risks for Other Organic Chemicals in Appendix D, respectively).

SUMMARY

A *Source Water Assessment* has been completed for the source of public drinking water serving Mayflower Trailer Courts. The overall vulnerability of this source to contamination is **Medium** for bacteria and viruses, volatile organic chemicals, synthetic organic chemicals, other organic chemicals and **High** for nitrates/nitrites and in-organic chemicals. This assessment of contaminant risks can be used as a foundation for local voluntary protection efforts as well as a basis for the continuous efforts on the part of Mayflower Trailer Courts to protect public health. It is anticipated that *Source Water Assessments* will be updated every five years to reflect any changes in the vulnerability and/or susceptibility of Mayflower Trailer Courts public drinking water source.

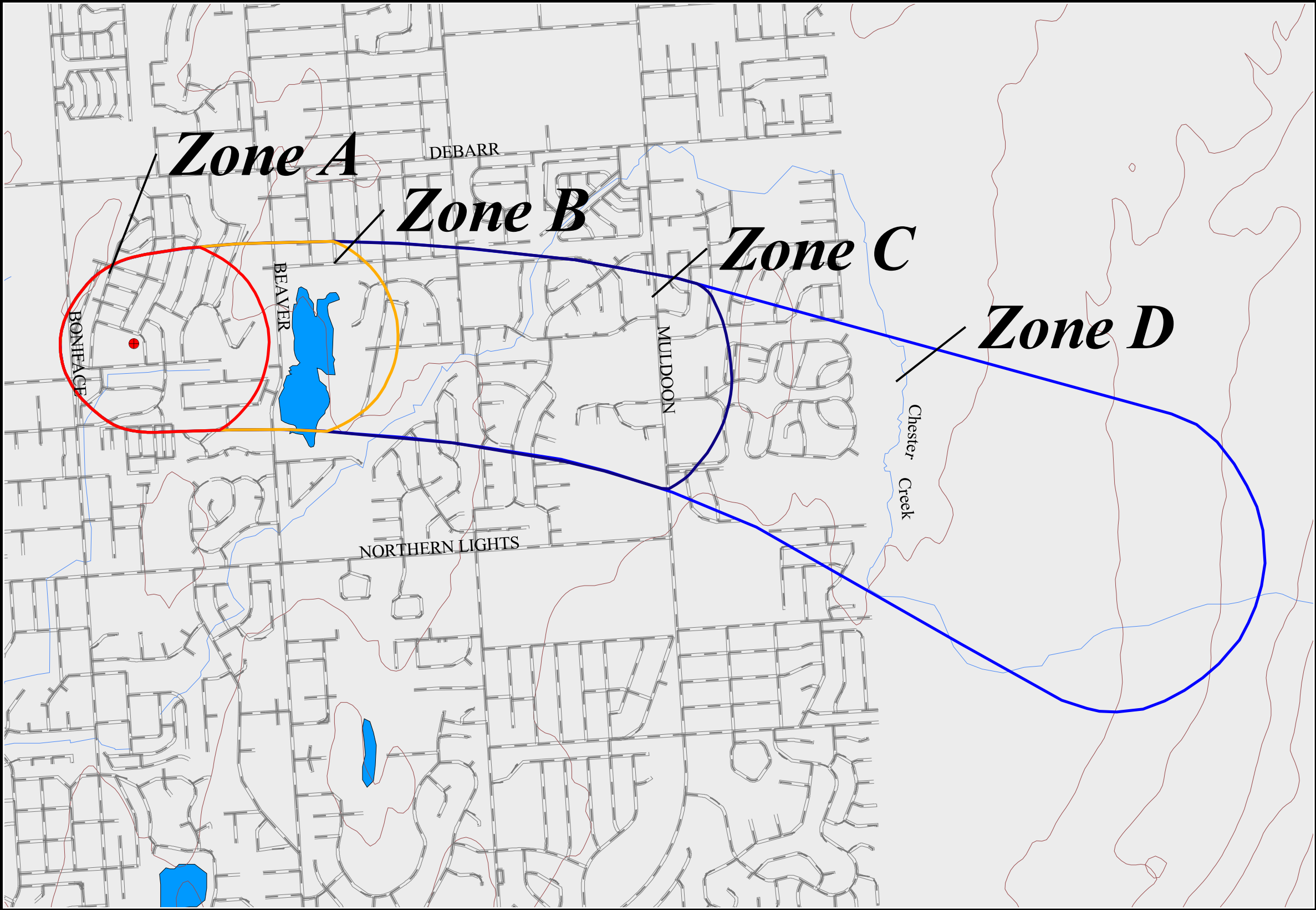
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APPENDIX A

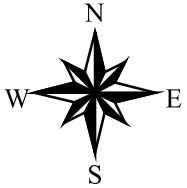
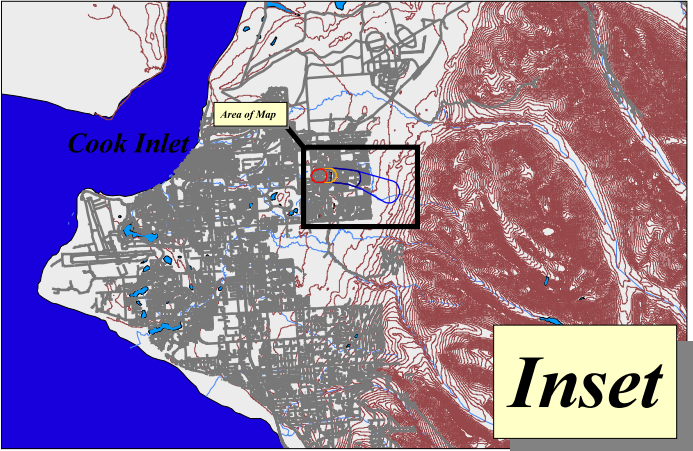
Mayflower Trailer Court Drinking Water Protection Area Location Map (Map 1)

Drinking Water Protection Area for Mayflower Trailer Court



Legend

- Mayflower Trailer Court Well
- Zone A Protection Area
 - ▭ Several Months Travel Time
- Zone B Protection Area
 - ▭ Less than 2 Years Travel Time
- Zone C Protection Area
 - ▭ Less than 5 Years Travel Time
- Zone D Protection Area
 - ▭ Less than 10 Years Travel Time
- ▭ Roads
- ▭ Elevation contours
- ▭ Streams
- ▭ Lakes



0 2 Miles

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Map 1

APPENDIX B

Contaminant Source Inventory and Risk Ranking for Mayflower Trailer Court (Tables 1-7)

Table 1

**Contaminant Source Inventory for
Mayflower Trailer Court**

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Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Map Number	Comments
Construction trade areas and materials	C09	C9-1	A	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	2	

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	2	
Lawns and gardens	R01	R1-1	A	4	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-1	A	4	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-2	A	4	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-1	A	4	Nunaka Valley Elementary School Petroleum contamination File No. CS68.09 Priority: Medium
Municipal or city parks (with green areas)	X04	X4-1	A	4	
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	2	

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	2	
Dog walking areas/foot trails	X46	X26-2	A	4	
Dog walking areas/foot trails	X46	X46-1	A	4	

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Dog walking areas/foot trails	X46	X46-3	A	4	
Agricultural chemical sales/storage	C02	C2-1	B	4	
Printers, publishers, copiers	C37	C37-1	B	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	3	
Asphalt and tar processing/storage	I03	I3-1	B	4	
Lawns and gardens	R01	R1-2	B	4	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	4	
Municipal or city parks (with green areas)	X04	X4-2	B	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	3	
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	3	
Dog walking areas/foot trails	X46	X46-4	B	4	
Dog walking areas/foot trails	X46	X46-5	B	4	
Car washes with engine or undercarriage cleaning	C08	C8-1	C	5	

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Map Number</i>	<i>Comments</i>
Construction trade areas and materials	C09	C9-2	C	5	
Construction trade areas and materials	C09	C9-3	C	5	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	C	5	
Gasoline stations (without repair shop)	C15	C15-1	C	5	
Motor /motor vehicle repair shops	C31	C31-1	C	5	
Snow disposal areas	D60	D60-1	C	5	
Lawns and gardens	R01	R1-3	C	5	
Septic systems (serves one or more single-family homes)	R02	R2-2	C	5	
Tanks, diesel (underground)	T08	T8-1	C	5	
Tanks, gasoline (underground)	T12	T12-1	C	5	
Tanks, gasoline (underground)	T12	T12-2	C	5	
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U7-1	C	5	Williams Express Station #5014 File No. L30.14 Overfill bucket problem. Priority: Medium
Municipal or city parks (with green areas)	X04	X4-3	C	5	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	C	5	
Dog walking areas/foot trails	X46	X46-10	C	5	
Dog walking areas/foot trails	X46	X46-11	C	5	
Dog walking areas/foot trails	X46	X46-6	C	5	
Dog walking areas/foot trails	X46	X46-7	C	5	
Dog walking areas/foot trails	X46	X46-8	C	5	
Dog walking areas/foot trails	X46	X46-9	C	5	
Public utility easements/corridors	X42	X42-1	D	6	

Table 2

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Bacteria and Viruses*

PWSID 211619.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Medium	2	

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Bacteria and Viruses*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Medium	2	
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	Low	2	

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Bacteria and Viruses*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	Low	2	
Dog walking areas/foot trails	X46	X26-2	A	Low	4	
Municipal or city parks (with green areas)	X04	X4-1	A	Medium	4	

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Bacteria and Viruses*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Dog walking areas/foot trails	X46	X46-1	A	Low	4	
Dog walking areas/foot trails	X46	X46-3	A	Low	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Medium	3	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	Low	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	Low	3	
Municipal or city parks (with green areas)	X04	X4-2	B	Medium	4	
Dog walking areas/foot trails	X46	X46-4	B	Low	4	
Dog walking areas/foot trails	X46	X46-5	B	Low	4	

Table 2 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Bacteria and Viruses*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
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Table 3

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Nitrates/Nitrites*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Medium	2	

Table 3 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Nitrates/Nitrites*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Medium	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Medium	2	
Lawns and gardens	R01	R1-1	A	Low	4	
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	Low	2	

Table 3 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Nitrates/Nitrites*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	Low	2	
Dog walking areas/foot trails	X46	X26-2	A	Low	4	

Table 3 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Nitrates/Nitrites*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Municipal or city parks (with green areas)	X04	X4-1	A	Medium	4	
Dog walking areas/foot trails	X46	X46-1	A	Low	4	
Dog walking areas/foot trails	X46	X46-3	A	Low	4	
Agricultural chemical sales/storage	C02	C2-1	B	High	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Medium	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Medium	3	
Lawns and gardens	R01	R1-2	B	Low	4	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	Low	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	Low	3	

Table 3 (continued)

Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Nitrates/Nitrites

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Municipal or city parks (with green areas)	X04	X4-2	B	Medium	4	
Dog walking areas/foot trails	X46	X46-4	B	Low	4	
Dog walking areas/foot trails	X46	X46-5	B	Low	4	
Lawns and gardens	R01	R1-3	C	Low	5	
Septic systems (serves one or more single-family homes)	R02	R2-2	C	Low	5	
Municipal or city parks (with green areas)	X04	X4-3	C	Medium	5	
Dog walking areas/foot trails	X46	X46-10	C	Low	5	
Dog walking areas/foot trails	X46	X46-11	C	Low	5	
Dog walking areas/foot trails	X46	X46-6	C	Low	5	
Dog walking areas/foot trails	X46	X46-7	C	Low	5	
Dog walking areas/foot trails	X46	X46-8	C	Low	5	
Dog walking areas/foot trails	X46	X46-9	C	Low	5	

Table 4

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Volatile Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Construction trade areas and materials	C09	C9-1	A	Low	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Low	2	

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Volatile Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Low	2	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-1	A	Medium	4	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-2	A	Medium	4	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-1	A	Medium	4	Nunaka Valley Elementary School Petroleum contamination File No. CS68.09 Priority: Medium
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	Low	2	

Table 4 (continued)

Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Volatile Organic Chemicals

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	Low	2	

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Volatile Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	Low	2	
Printers, publishers, copiers	C37	C37-1	B	High	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Low	3	
Asphalt and tar processing/storage	I03	I3-1	B	Medium	4	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	Low	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	Low	3	

Table 4 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Volatile Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	Low	3	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	C	High	5	
Gasoline stations (without repair shop)	C15	C15-1	C	High	5	
Motor /motor vehicle repair shops	C31	C31-1	C	Medium	5	
Car washes with engine or undercarriage cleaning	C08	C8-1	C	High	5	
Construction trade areas and materials	C09	C9-2	C	Low	5	
Construction trade areas and materials	C09	C9-3	C	Low	5	
Snow disposal areas	D60	D60-1	C	Low	5	
Septic systems (serves one or more single-family homes)	R02	R2-2	C	Low	5	
Tanks, gasoline (underground)	T12	T12-1	C	High	5	
Tanks, gasoline (underground)	T12	T12-2	C	High	5	
Tanks, diesel (underground)	T08	T8-1	C	High	5	
Open Leaking Underground Fuel Storage Tank (LUST) Sites	U07	U7-1	C	Medium	5	Williams Express Station #5014 File No. L30.14 Overfill bucket problem. Priority: Medium
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	C	Low	5	

Table 5

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Construction trade areas and materials	C09	C9-1	A	Low	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Low	2	

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 211619.001

Contaminant Source Type	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Map Number	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	Low	2	

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	Low	2	
Agricultural chemical sales/storage	C02	C2-1	B	Low	4	

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Printers, publishers, copiers	C37	C37-1	B	Medium	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Low	3	
Asphalt and tar processing/storage	I03	I3-1	B	Low	4	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	Low	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	Low	3	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	C	Low	5	
Motor /motor vehicle repair shops	C31	C31-1	C	Medium	5	
Car washes with engine or undercarriage cleaning	C08	C8-1	C	Medium	5	

Table 5 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Heavy Metals, Cyanide and Other Inorganic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Construction trade areas and materials	C09	C9-2	C	Low	5	
Construction trade areas and materials	C09	C9-3	C	Low	5	
Snow disposal areas	D60	D60-1	C	Low	5	
Septic systems (serves one or more single-family homes)	R02	R2-2	C	Low	5	
Tanks, gasoline (underground)	T12	T12-1	C	Medium	5	
Tanks, gasoline (underground)	T12	T12-2	C	Medium	5	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	C	Low	5	

Table 6

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Synthetic Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Low	2	

Table 6 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Synthetic Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Low	2	
Lawns and gardens	R01	R1-1	A	Low	4	
Municipal or city parks (with green areas)	X04	X4-1	A	Low	4	
Agricultural chemical sales/storage	C02	C2-1	B	High	4	
Printers, publishers, copiers	C37	C37-1	B	Low	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Low	3	

Table 6 (continued)

Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Synthetic Organic Chemicals

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Low	3	
Lawns and gardens	R01	R1-2	B	Low	4	
Septic systems (serves one or more single-family homes)	R02	R2-1	B	Low	4	
Municipal or city parks (with green areas)	X04	X4-2	B	Low	4	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	C	Medium	5	
Lawns and gardens	R01	R1-3	C	Low	5	
Septic systems (serves one or more single-family homes)	R02	R2-2	C	Low	5	
Municipal or city parks (with green areas)	X04	X4-3	C	Low	5	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	C	Low	5	
Public utility easements/corridors	X42	X42-1	D	High	6	

Table 7

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Other Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Construction trade areas and materials	C09	C9-1	A	Low	4	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-10	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-11	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-12	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-13	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-14	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-15	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-16	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-17	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-18	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-19	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-2	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-20	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-21	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-22	A	Low	2	

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Other Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-23	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-24	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-25	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-3	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-4	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-5	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-6	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-7	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-8	A	Low	2	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-9	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-1	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-10	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-11	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-12	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-13	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-14	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-15	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-16	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-17	A	Low	2	

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Other Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Highways and roads, paved (cement or asphalt)	X20	X20-18	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-19	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-2	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-20	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-21	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-22	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-23	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-24	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-25	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-26	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-27	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-28	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-29	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-3	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-30	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-31	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-32	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-4	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-5	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-6	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-7	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-8	A	Low	2	
Highways and roads, paved (cement or asphalt)	X20	X20-9	A	Low	2	

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Other Organic Chemicals*

PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-27	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-28	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-29	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-30	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-31	B	Low	3	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-32	B	Low	3	
Asphalt and tar processing/storage	I03	I3-1	B	High	4	
Highways and roads, paved (cement or asphalt)	X20	X2-41	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-34	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-35	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-36	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-37	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-38	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-39	B	Low	3	
Highways and roads, paved (cement or asphalt)	X20	X20-40	B	Low	3	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	C	Medium	5	
Gasoline stations (without repair shop)	C15	C15-1	C	Low	5	
Motor /motor vehicle repair shops	C31	C31-1	C	Medium	5	
Car washes with engine or undercarriage cleaning	C08	C8-1	C	Medium	5	
Construction trade areas and materials	C09	C9-2	C	Low	5	
Construction trade areas and materials	C09	C9-3	C	Low	5	

Table 7 (continued)

*Contaminant Source Inventory and Risk Ranking for
Mayflower Trailer Court
Sources of Other Organic Chemicals*

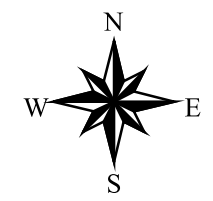
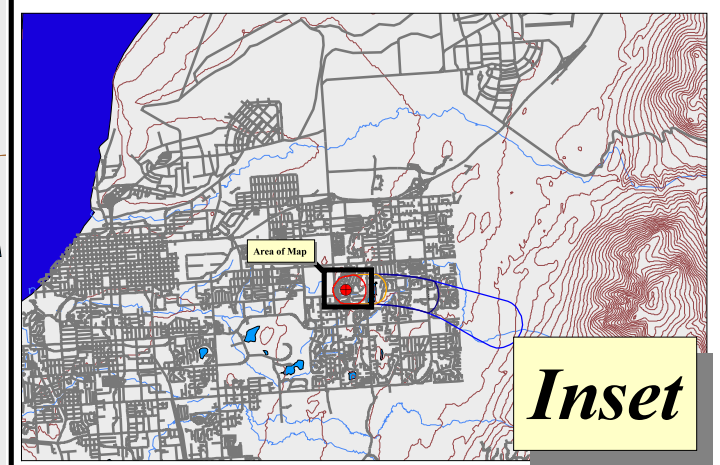
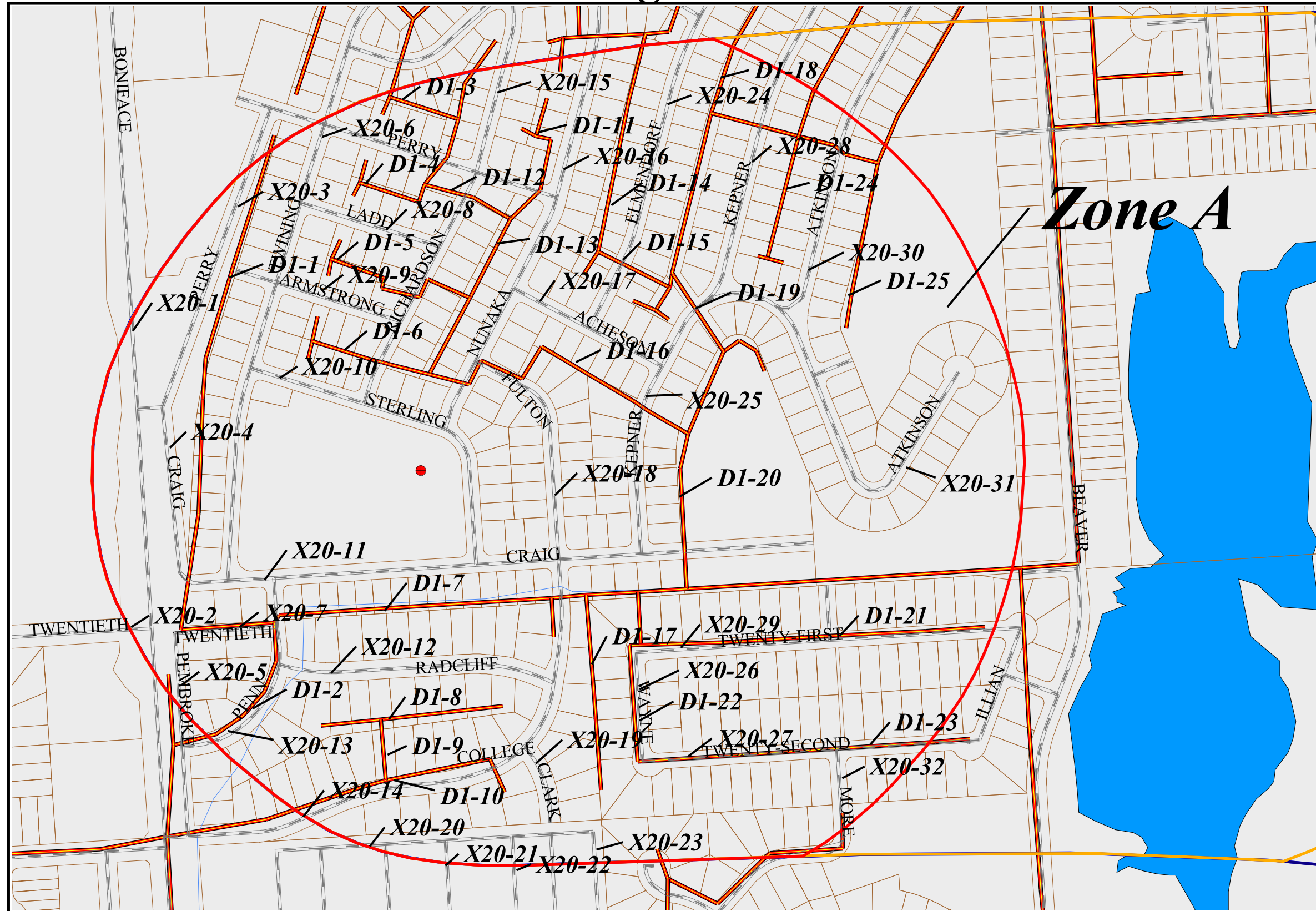
PWSID 211619.001

<i>Contaminant Source Type</i>	<i>Contaminant Source ID</i>	<i>CS ID tag</i>	<i>Zone</i>	<i>Risk Ranking for Analysis</i>	<i>Map Number</i>	<i>Comments</i>
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APPENDIX C

Mayflower Trailer Court Drinking Water Protection Area and Potential and Existing Contaminant Sources (Maps 2 - 6)

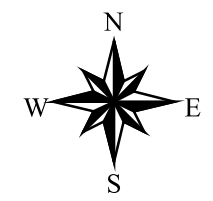
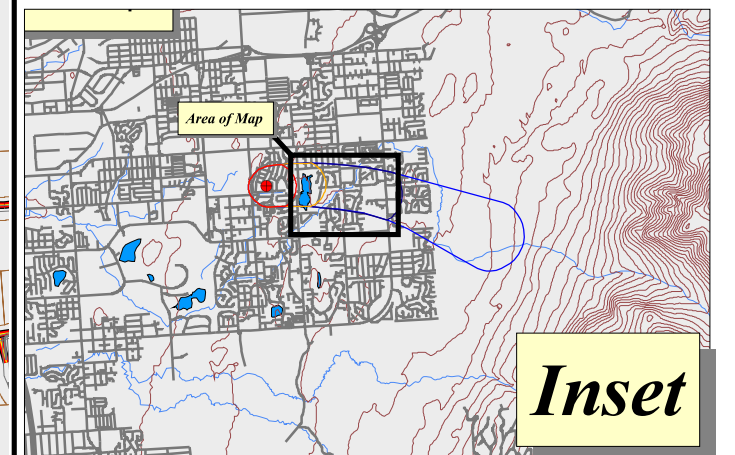
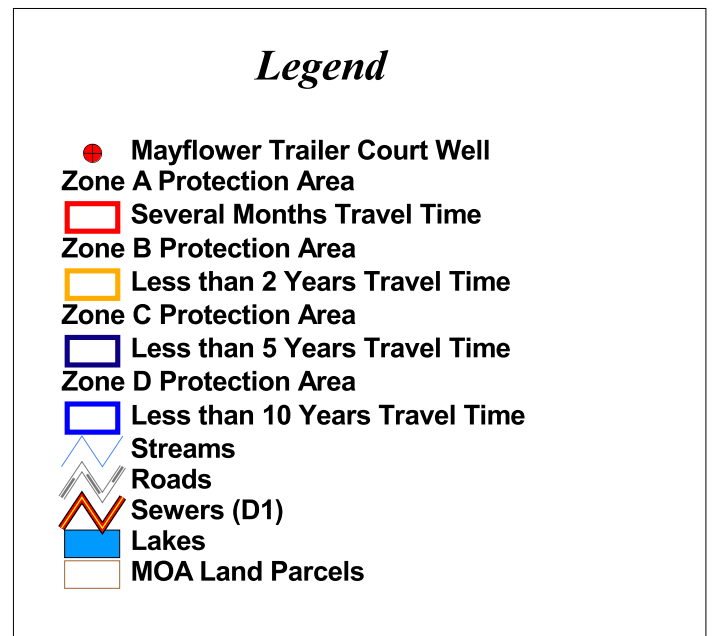
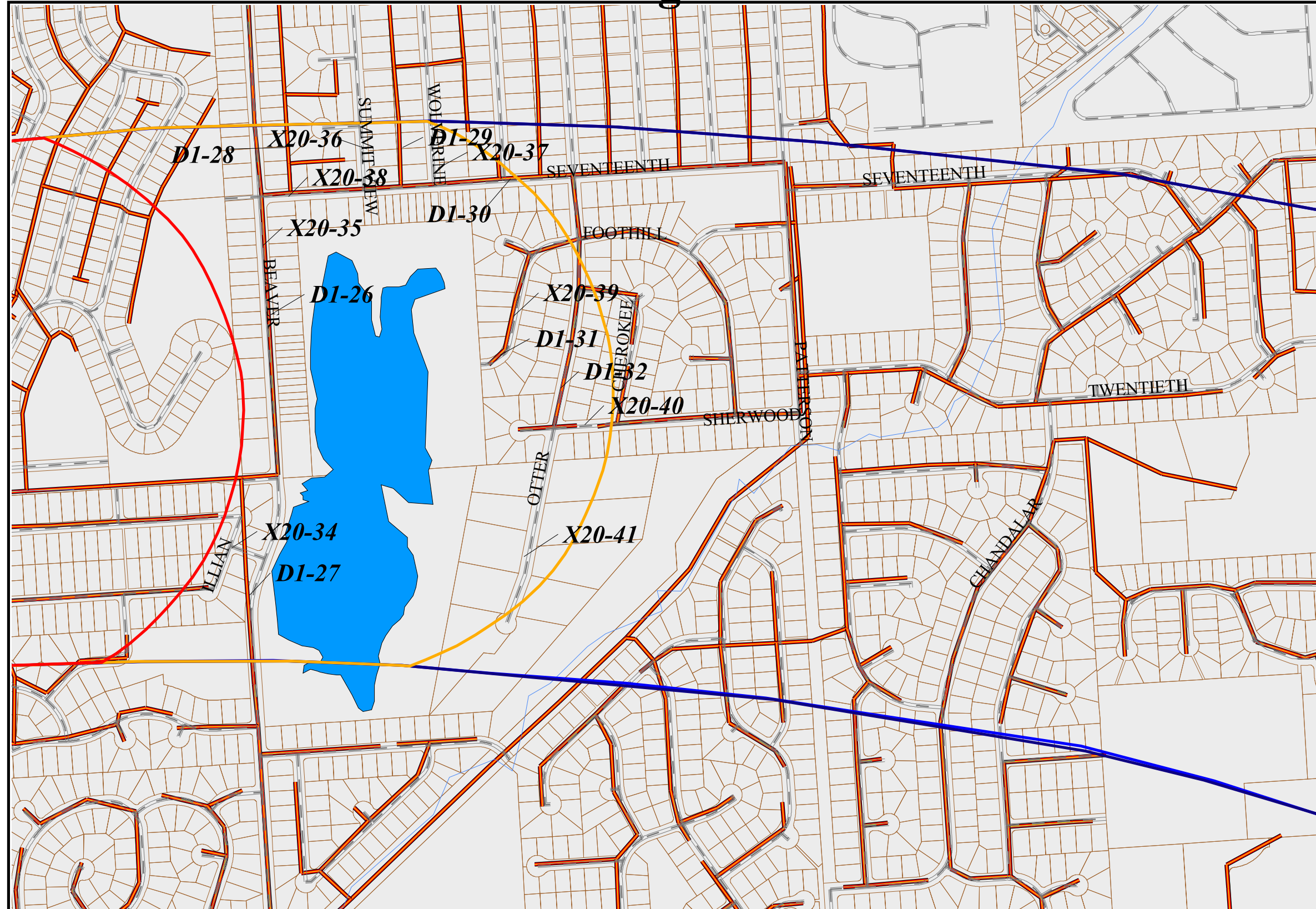
Drinking Water Protection Area for Mayflower Trailer Court and Potential and Existing Sources of Contamination



PWSID 211619.001

Map 2

Drinking Water Protection Area for Mayflower Trailer Court and Potential and Existing Sources of Contamination

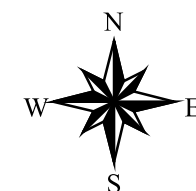
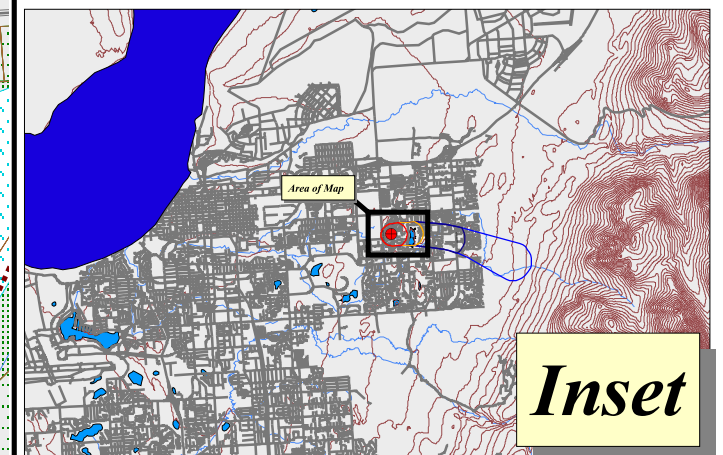
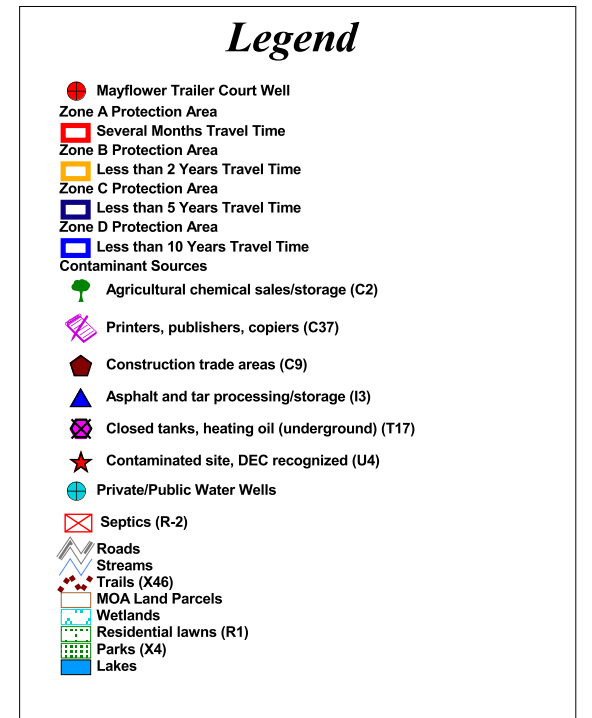
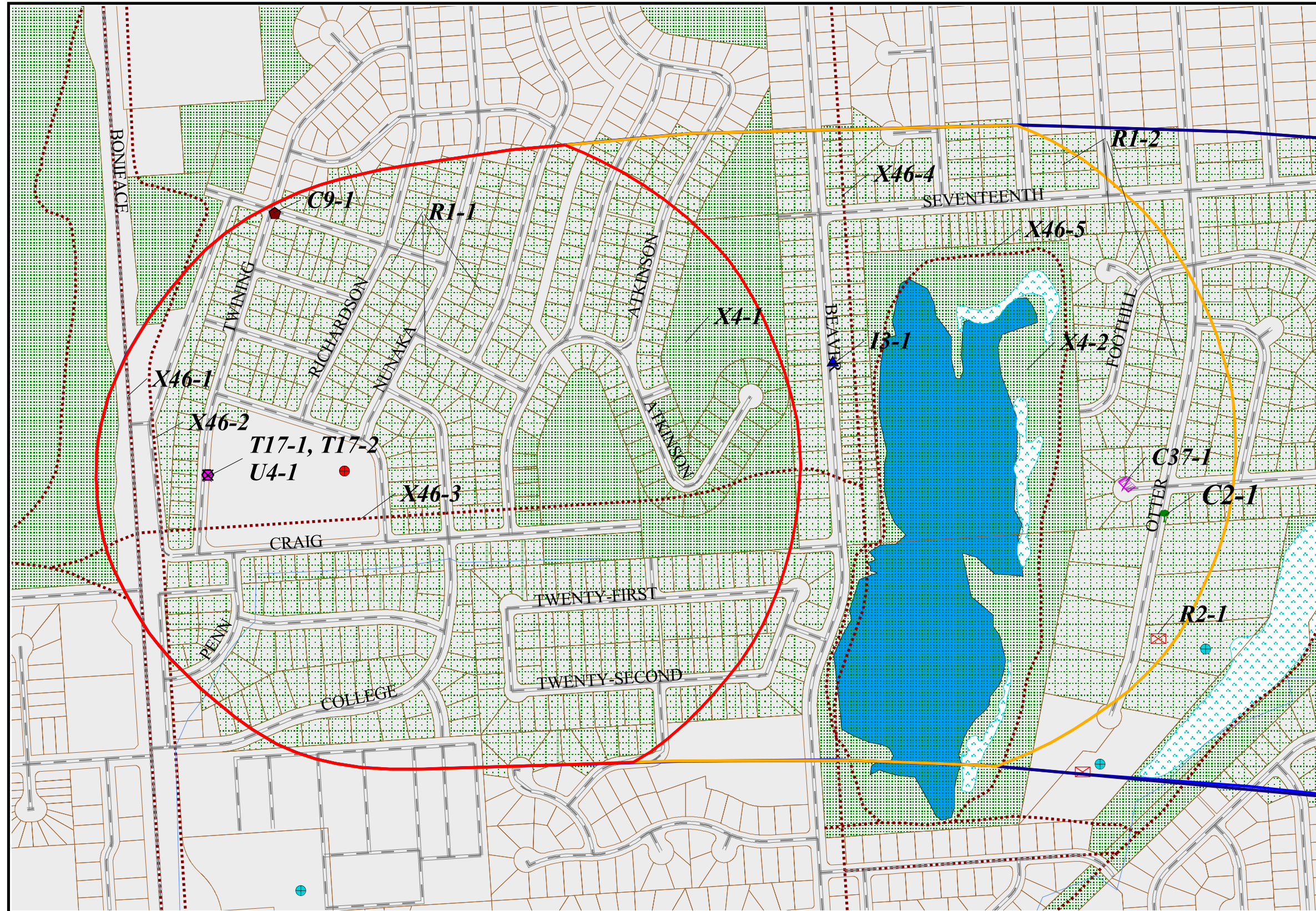


0 900 Feet

PWSID 211619.001

Map 3

Drinking Water Protection Area for Mayflower Trailer Court and Potential and Existing Sources of Contamination

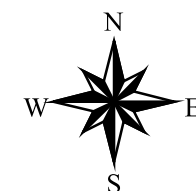
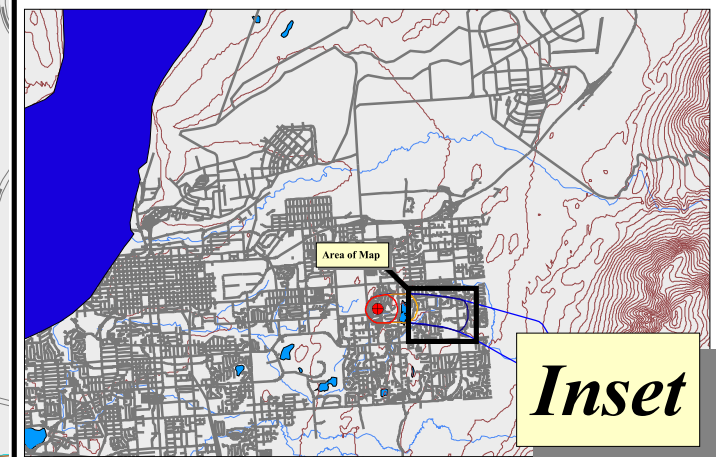
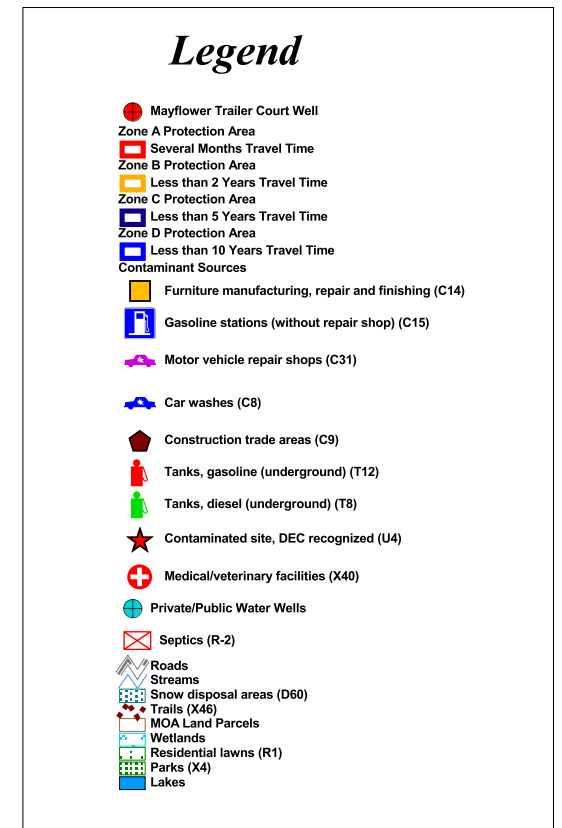
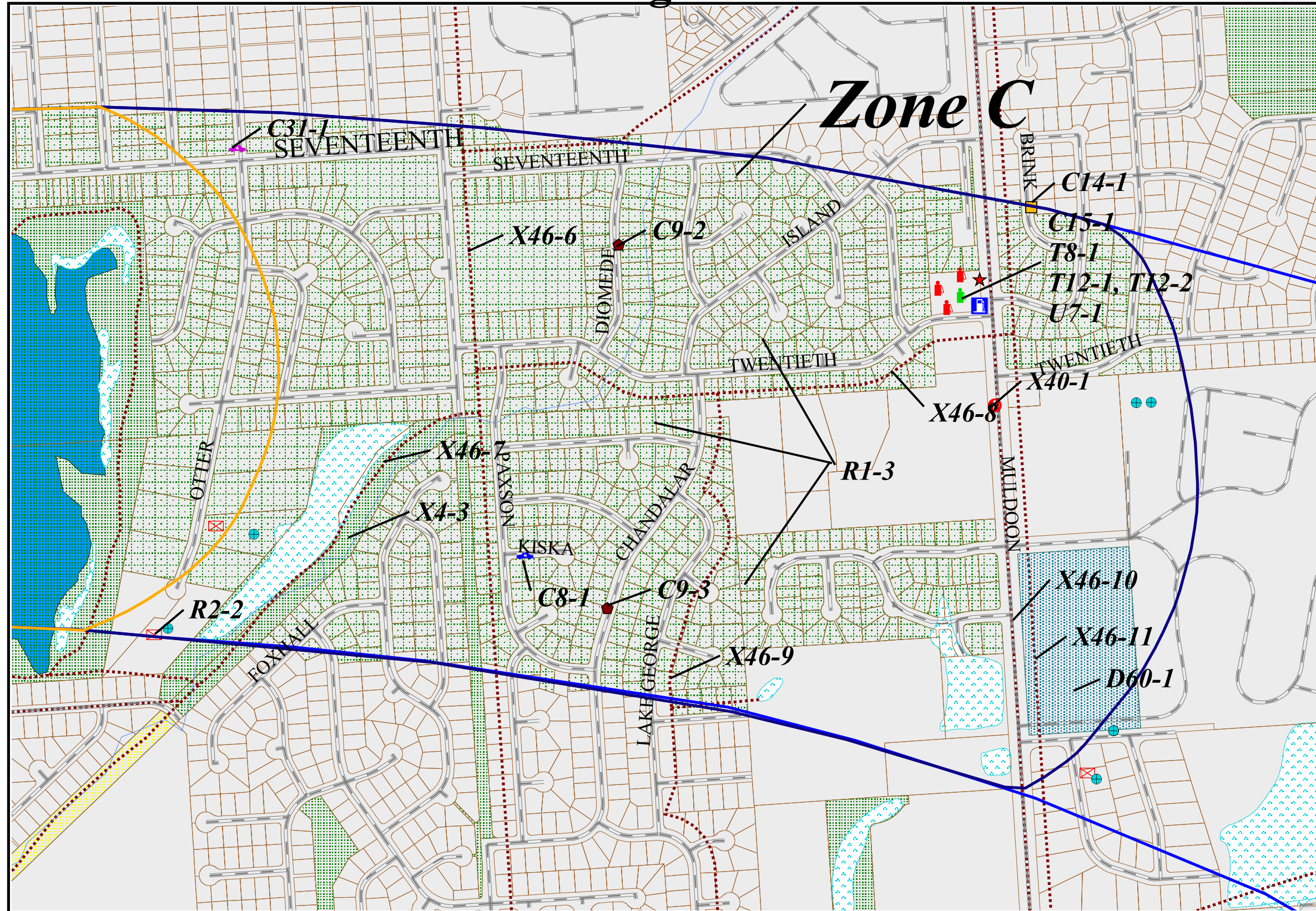


900 0 900 Feet

PWSID 211619.001

Map 4

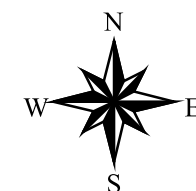
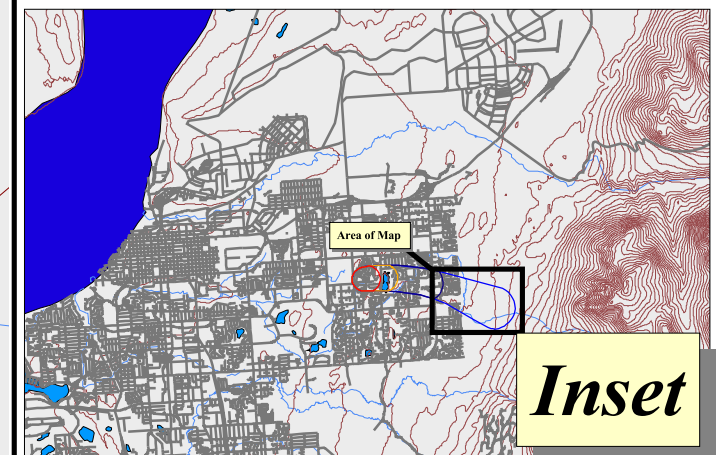
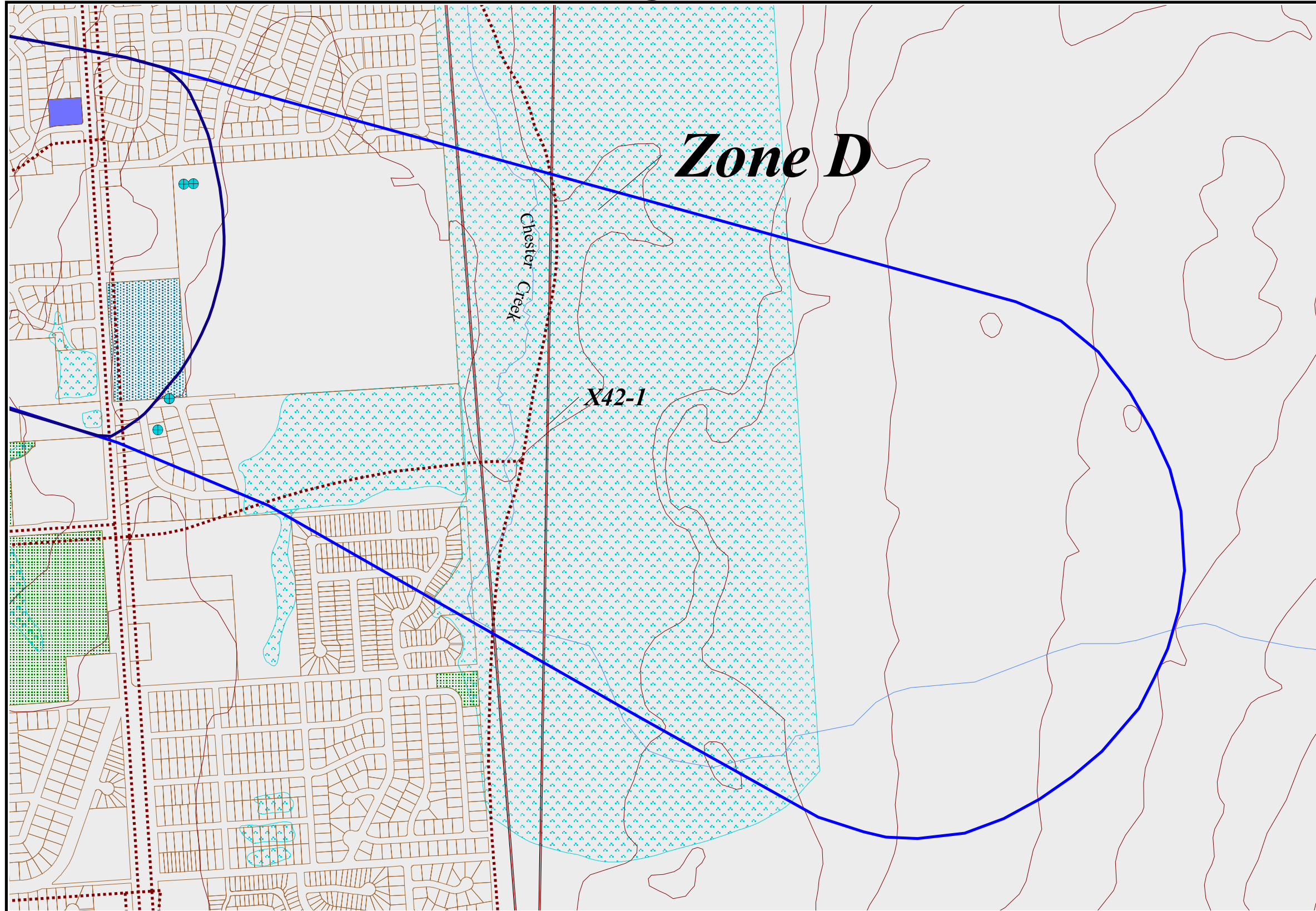
Drinking Water Protection Area for Mayflower Trailer Court and Potential and Existing Sources of Contamination



PWSID 211619

Map 5

Drinking Water Protection Area for Mayflower Trailer Court and Potential and Existing Sources of Contamination



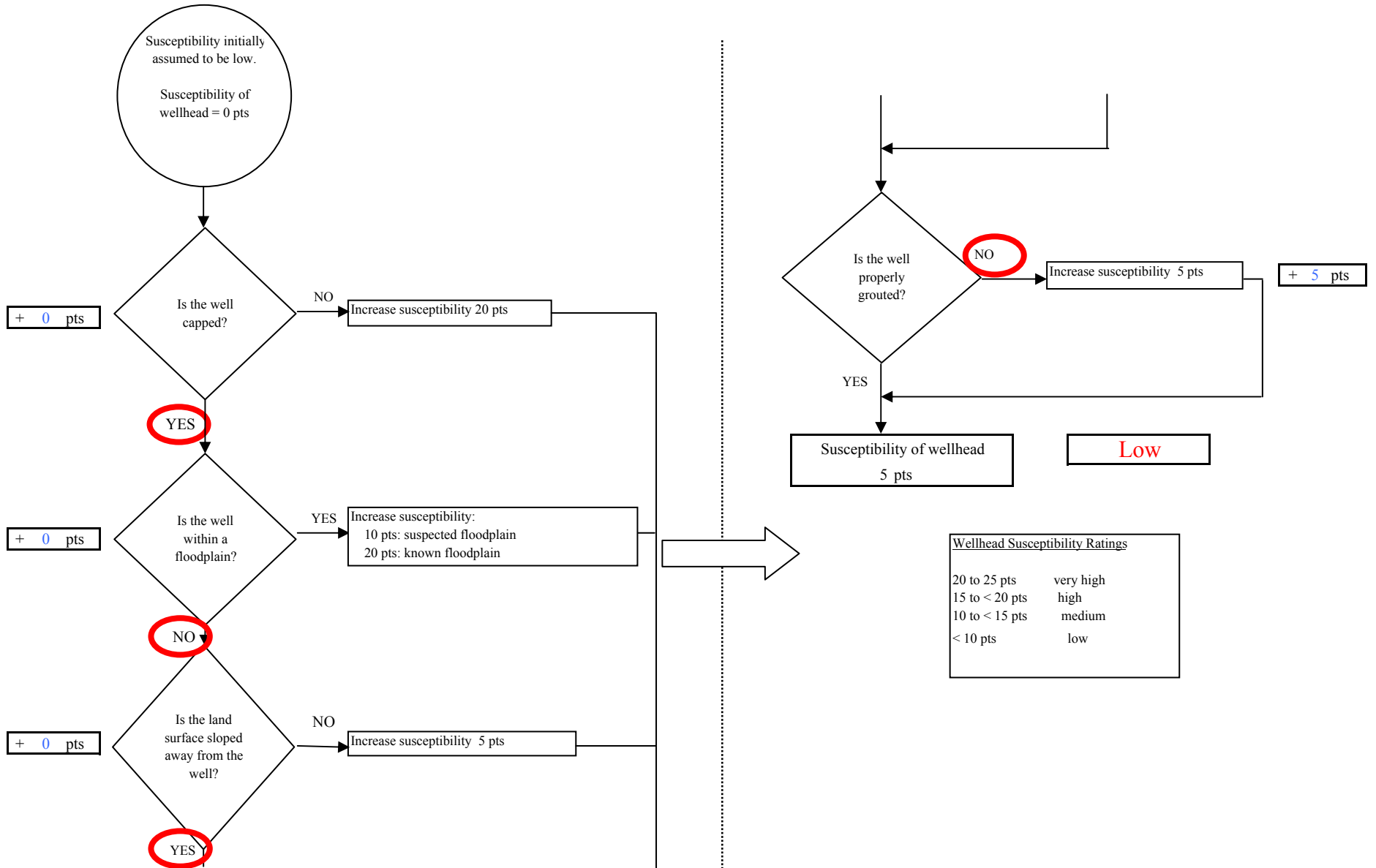
PWSID 211619.001

Map 6

APPENDIX D

Vulnerability Analysis for Mayflower Trailer Courts (Charts 1-14)

Chart 1. Susceptibility of the wellhead - Mayflower Trailer Court



Wellhead Susceptibility Ratings	
20 to 25 pts	very high
15 to < 20 pts	high
10 to < 15 pts	medium
< 10 pts	low

Chart 2. Susceptibility of the aquifer - Mayflower Trailer Court

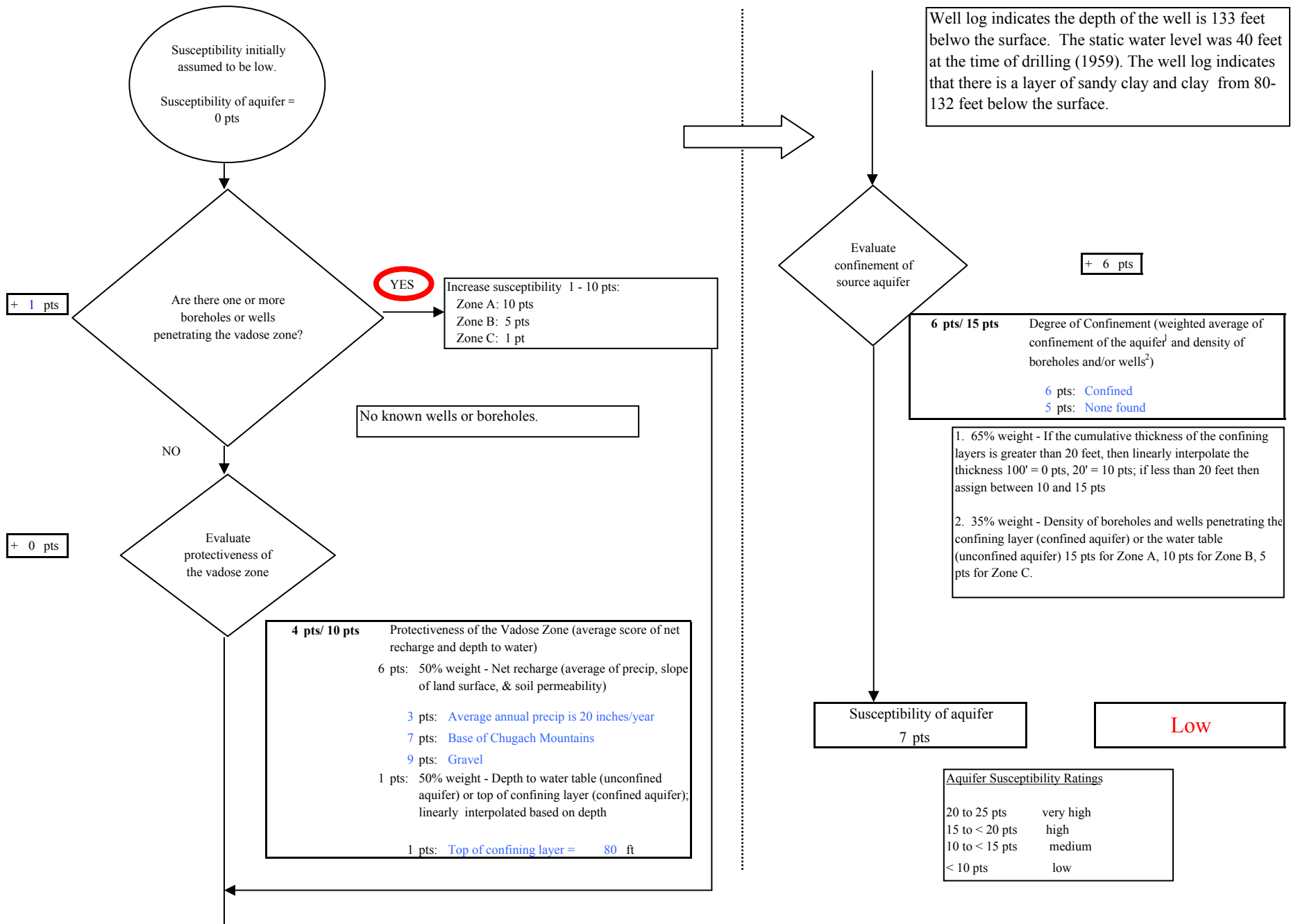
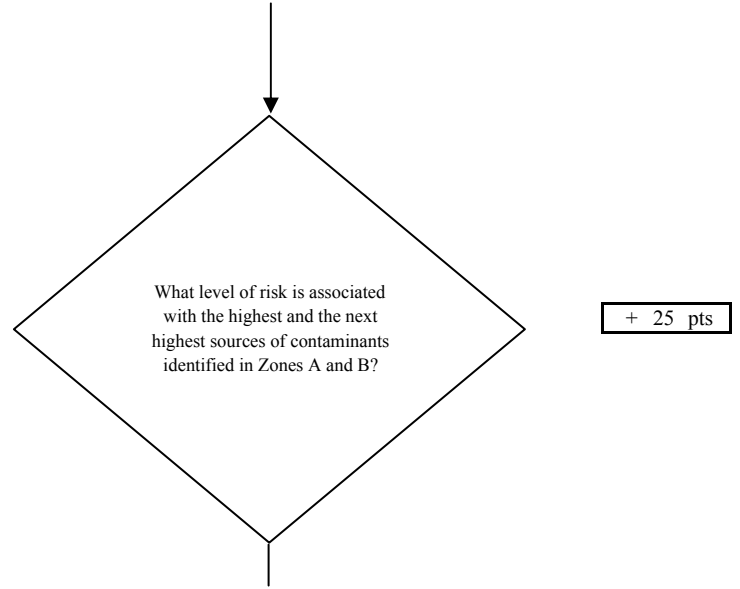
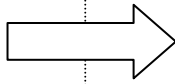
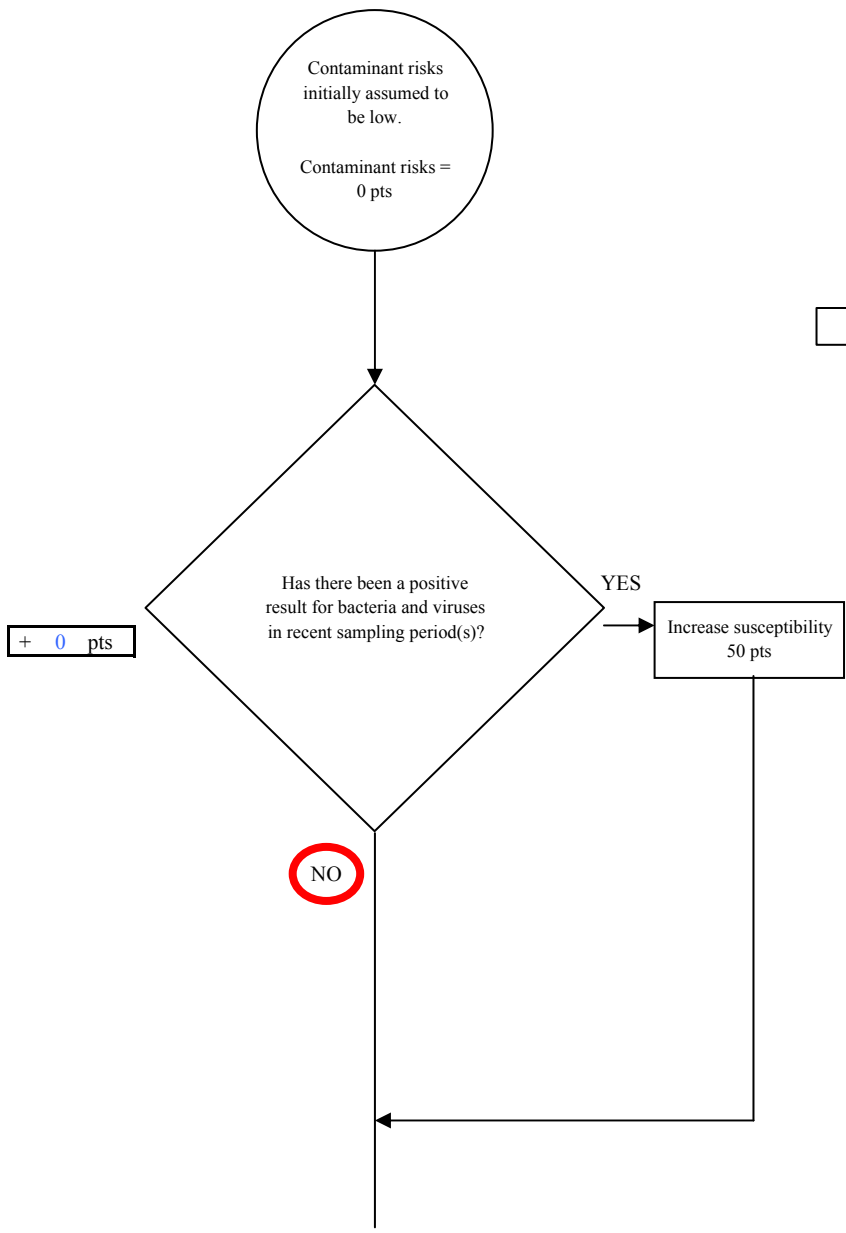


Chart 3. Contaminant risks for Mayflower Trailer Court - Bacteria & Viruses



Risk Rankings for Contaminant Sources Identified in Zones A and B

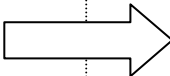
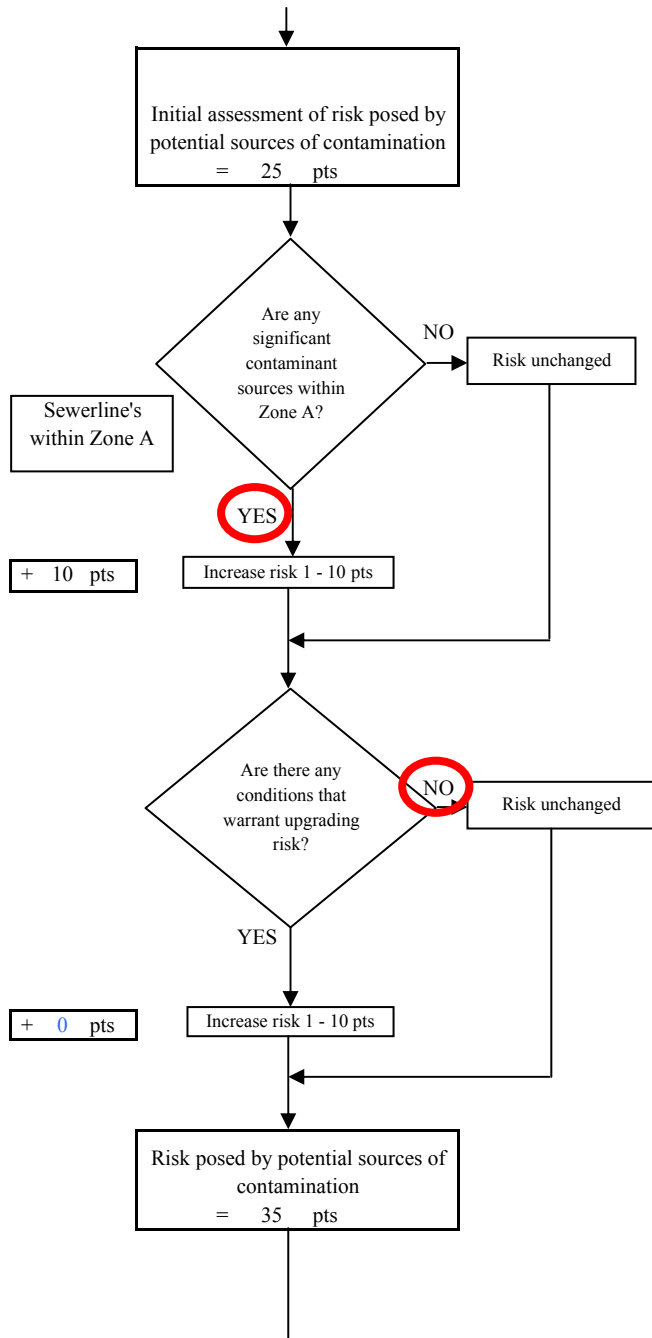
	Zone A	Zone B	Total
Very High(s)	0	0	0
High(s)	0	0	0
Medium(s)	4	1	5
Low(s)	5	5	10

	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 25

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

Chart 3. Contaminant risks for Mayflower Trailer Court - Bacteria & Viruses



Contaminant Risk Ratings	
40 to 50 pts	very high
30 to < 40 pts	high
20 to < 30 pts	medium
< 20 pts	low

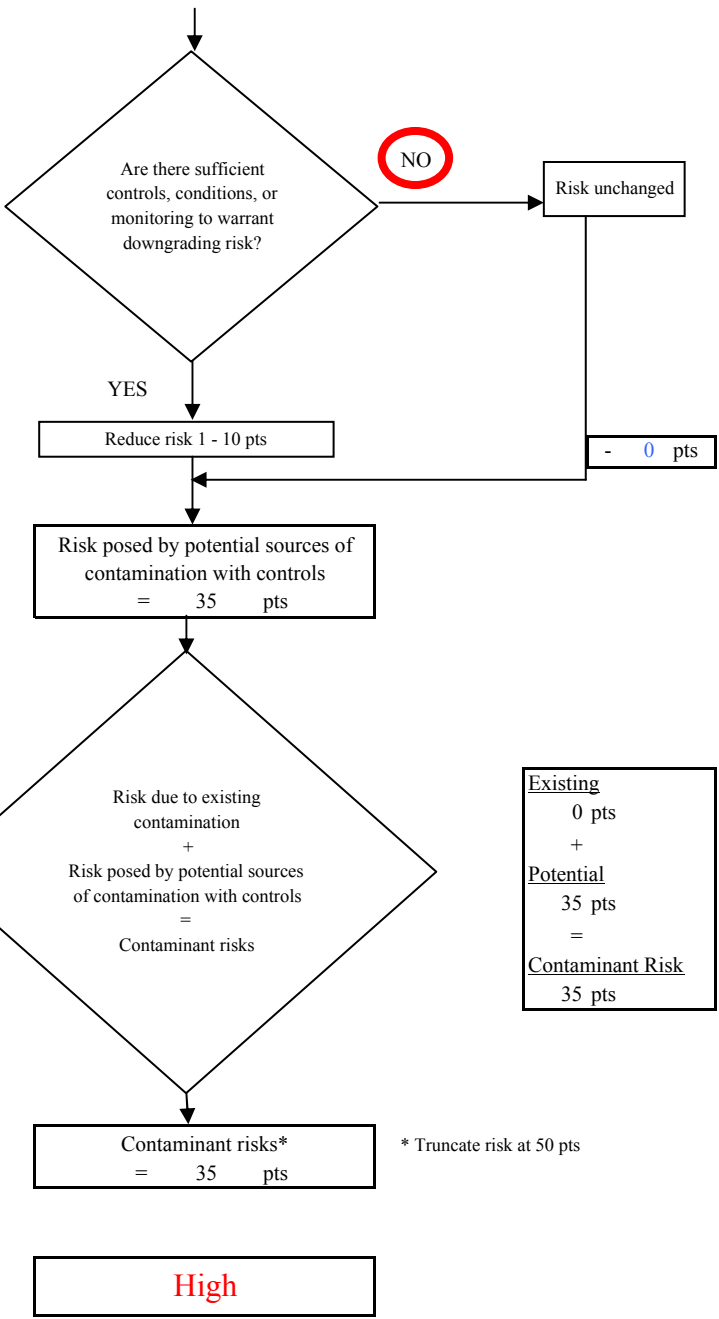


Chart 4. Vulnerability analysis for Mayflower Trailer Court - Bacteria & Viruses

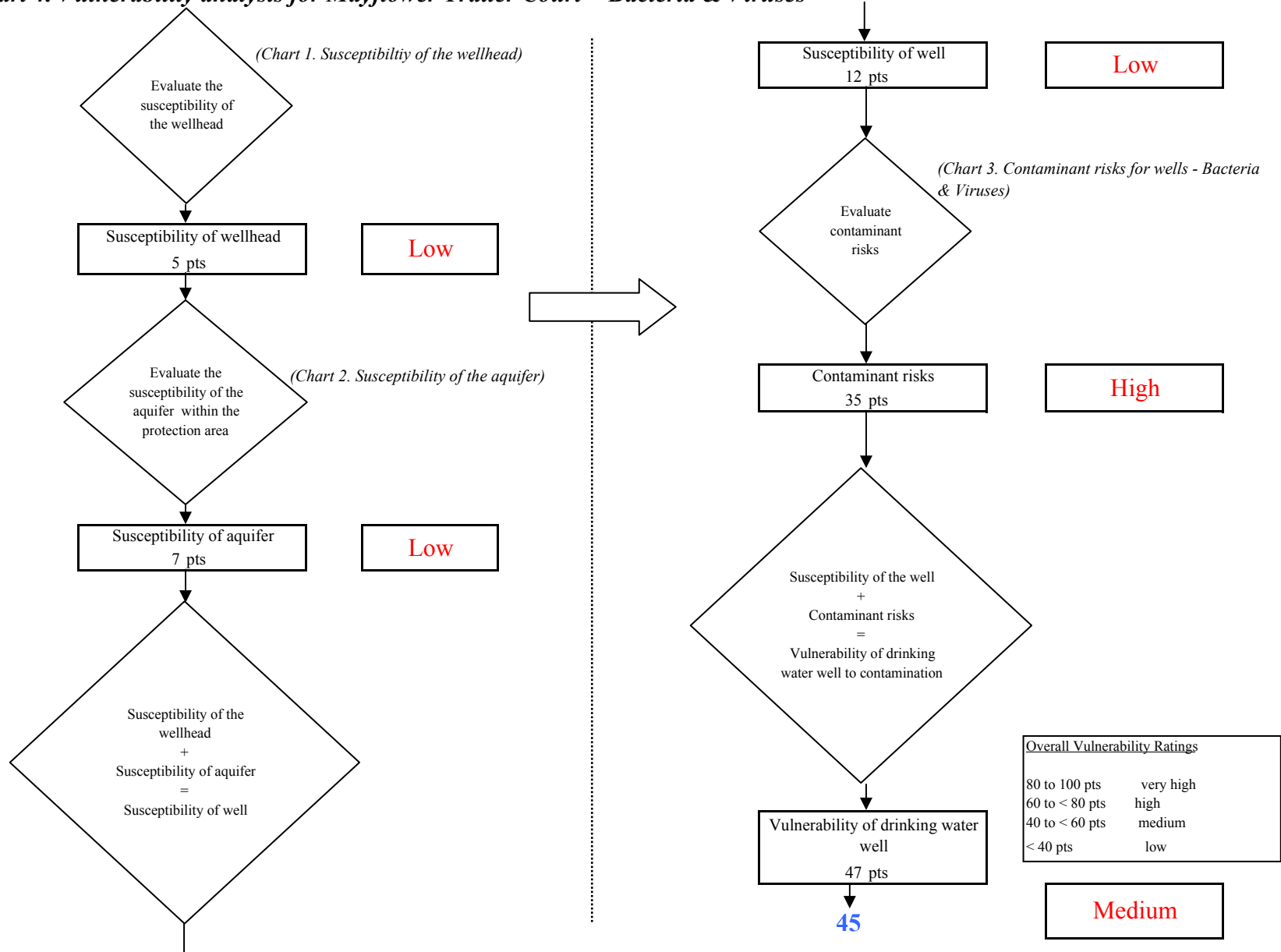


Chart 5. Contaminant risks for Mayflower Trailer Court - Nitrates and Nitrites

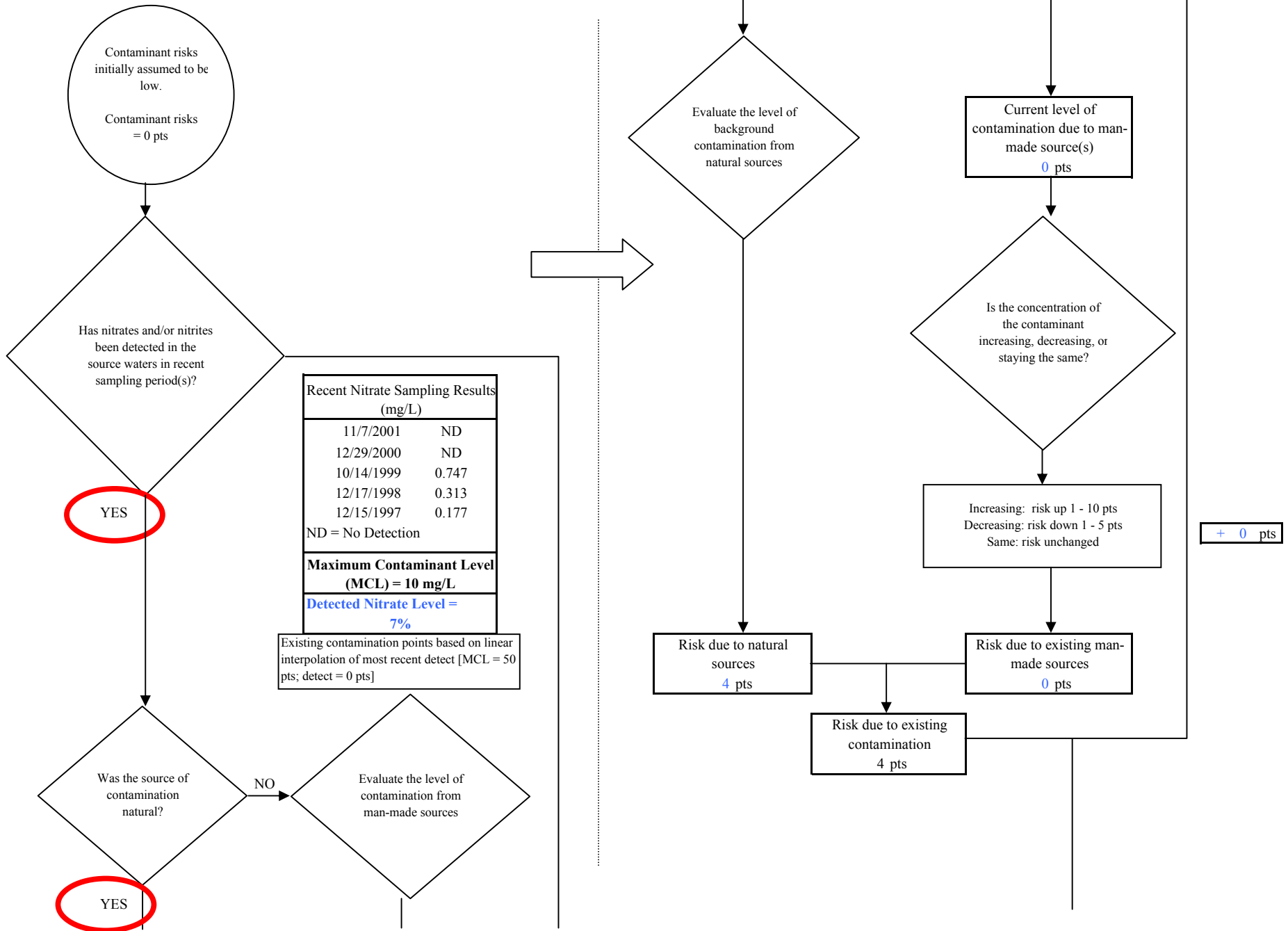
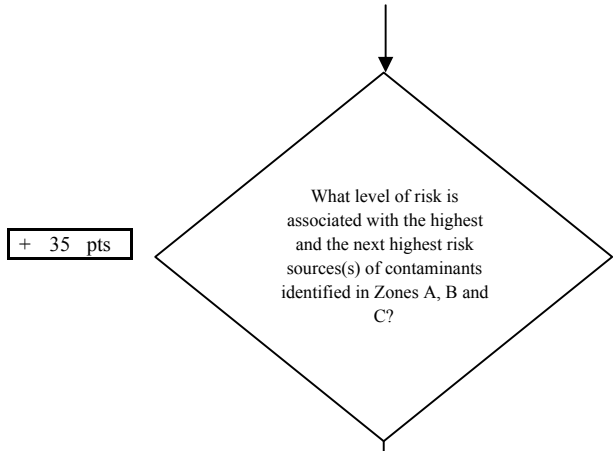


Chart 5. Contaminant risks for Mayflower Trailer Court - Nitrates and Nitrites



+ 35 pts

Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	0	1	1
Medium(s)	4	2	6
Low(s)	6	14	20

	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 35

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

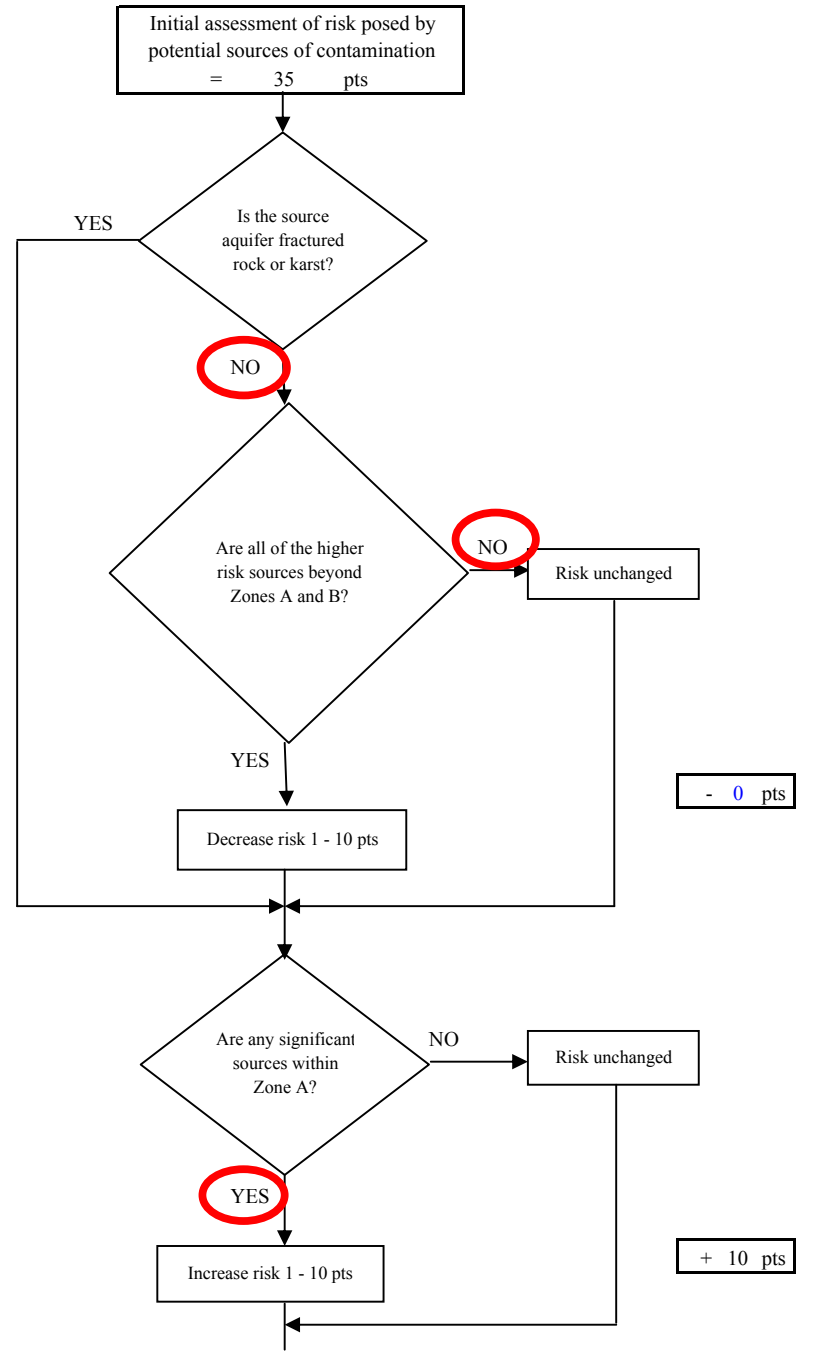
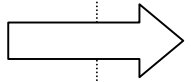


Chart 5. Contaminant risks for Mayflower Trailer Court - Nitrates and Nitrites

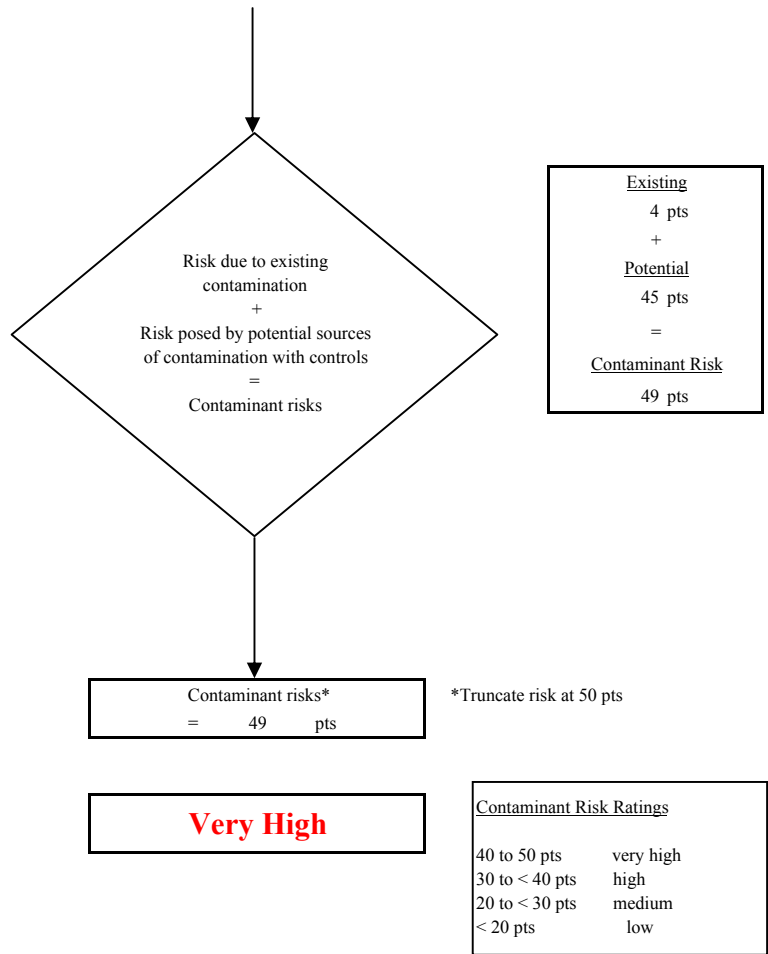
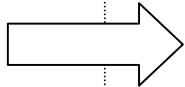
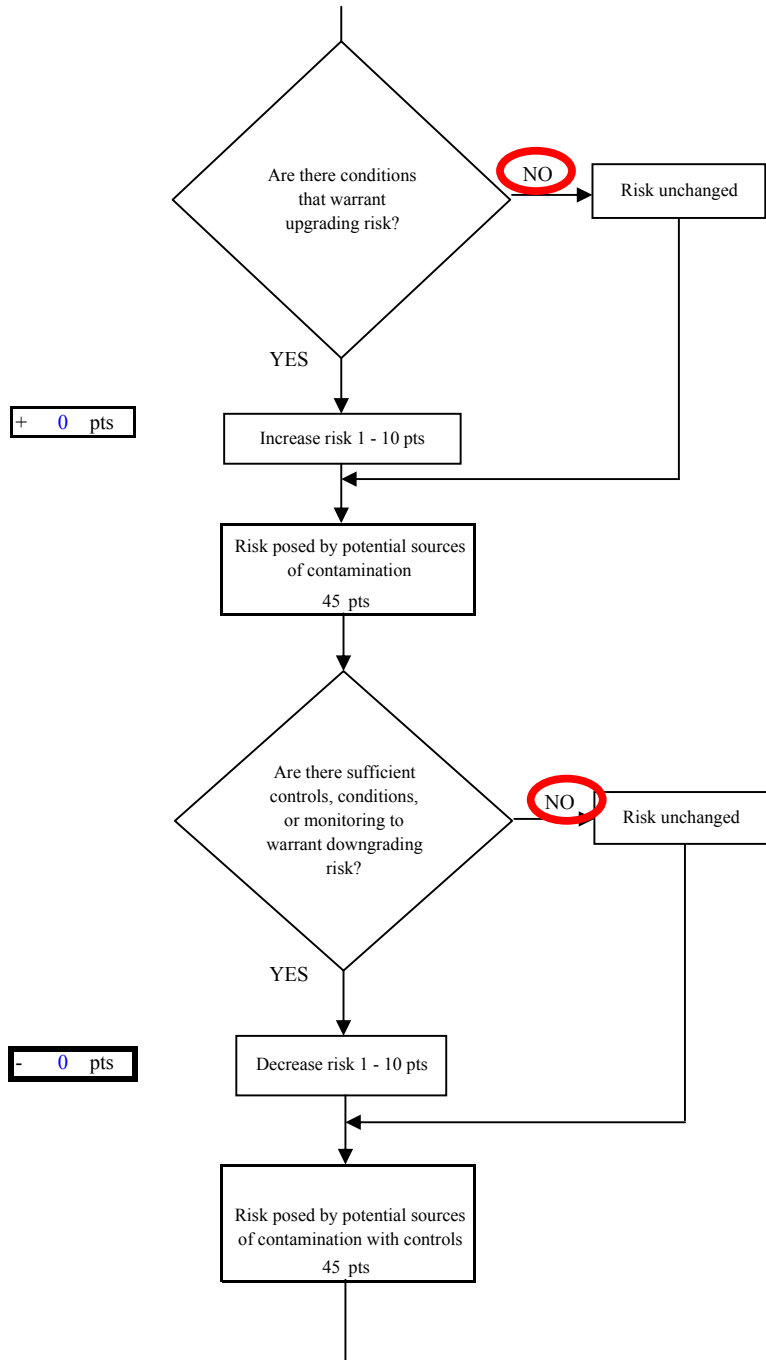


Chart 6. Vulnerability analysis for Mayflower Trailer Court - Nitrates and Nitrites

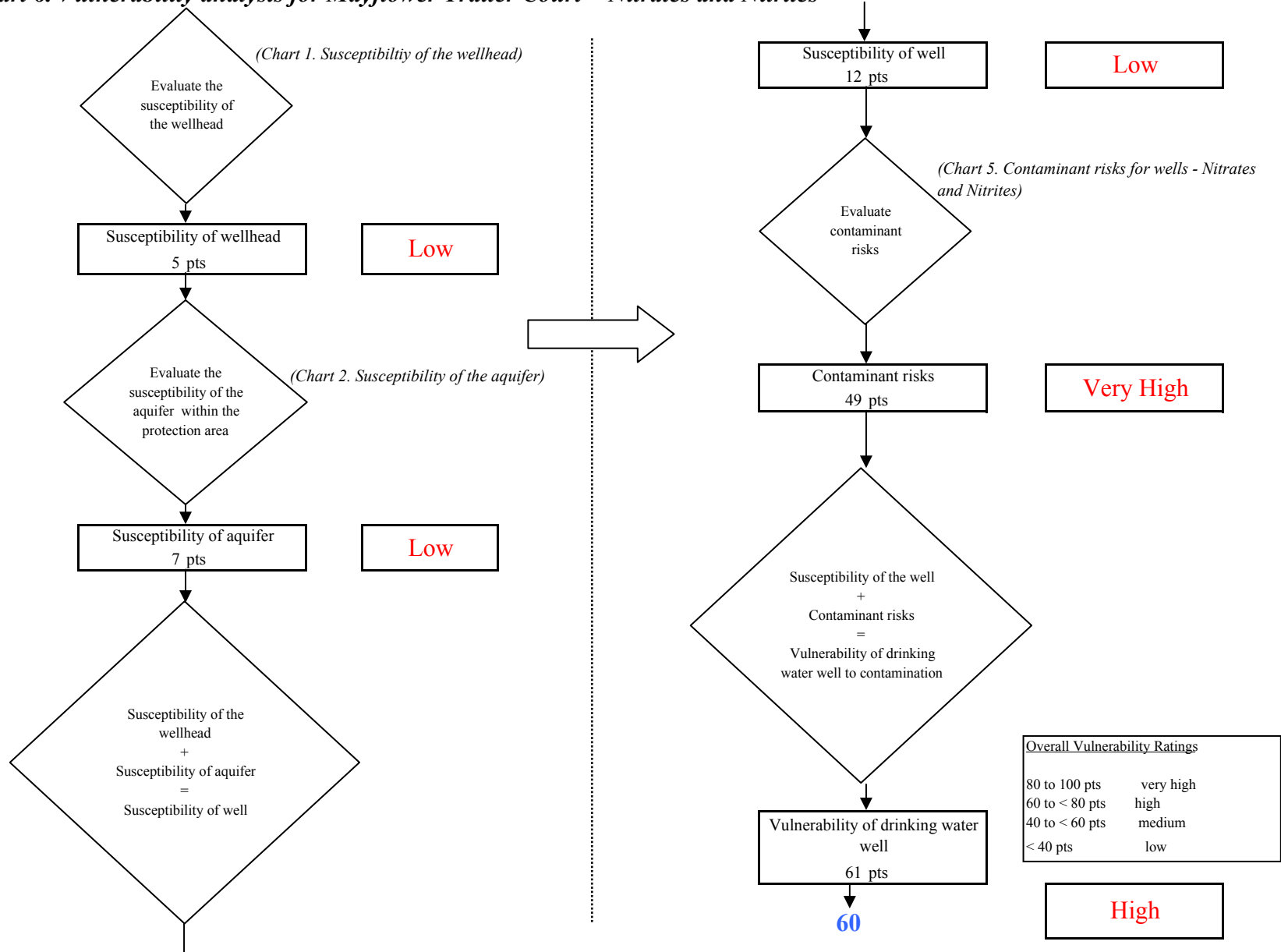


Chart 7. Contaminant risks for Mayflower Trailer Court - Volatile Organic Chemicals

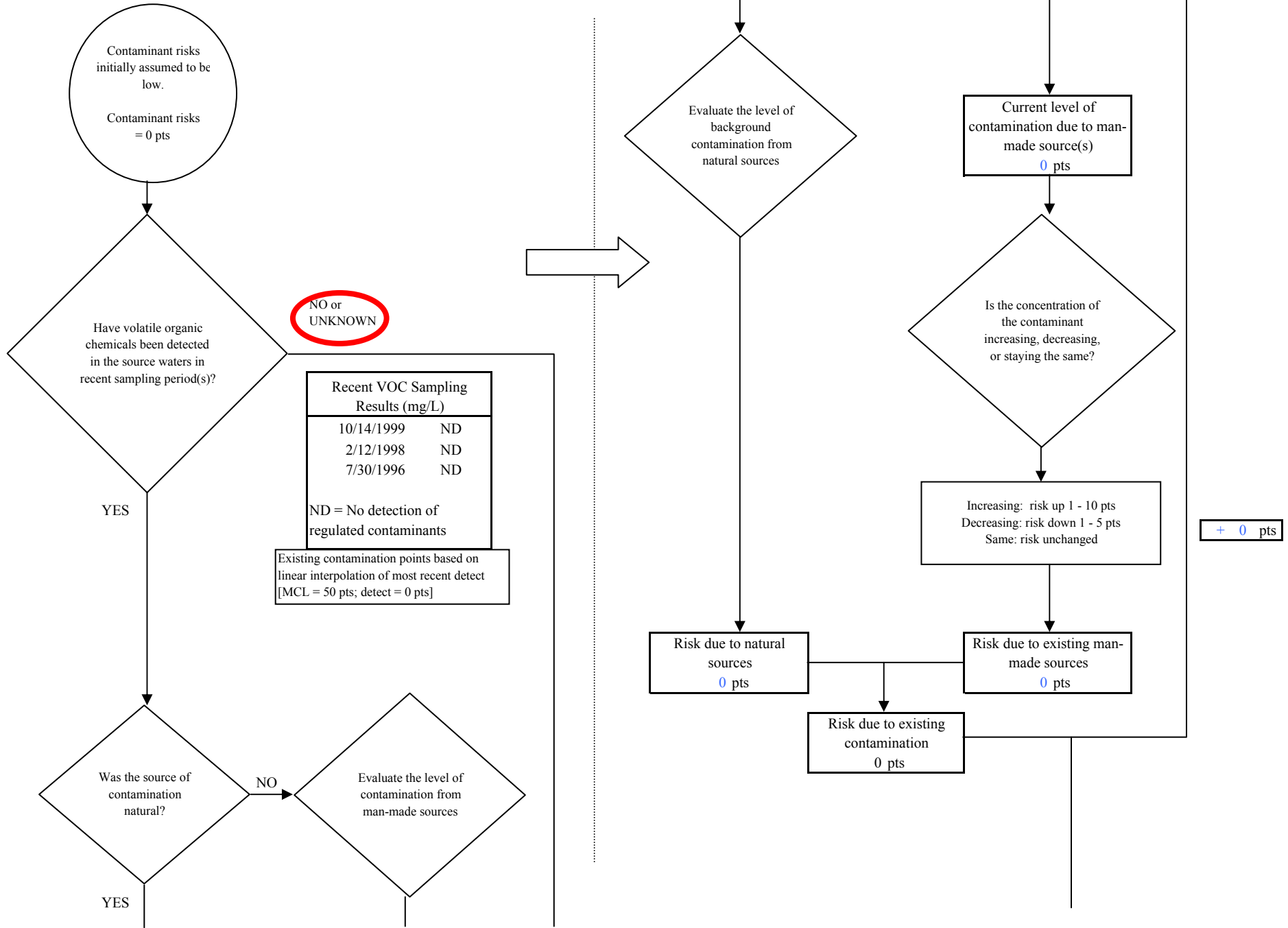
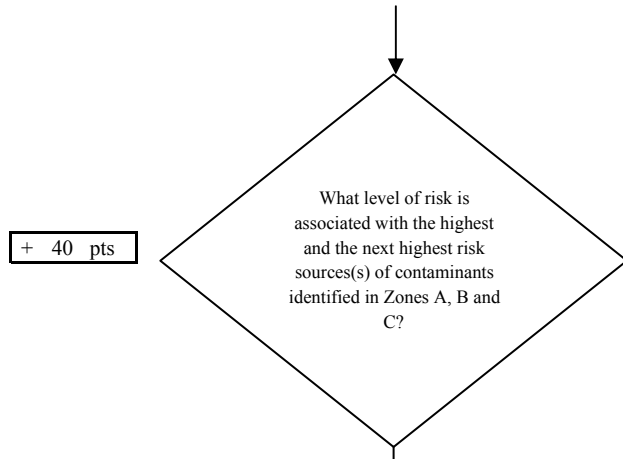


Chart 7. Contaminant risks for Mayflower Trailer Court - Volatile Organic Chemicals



Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very High(s)	0	0	0
High(s)	0	7	7
Medium(s)	2	2	4
Low(s)	6	8	14

	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 40

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

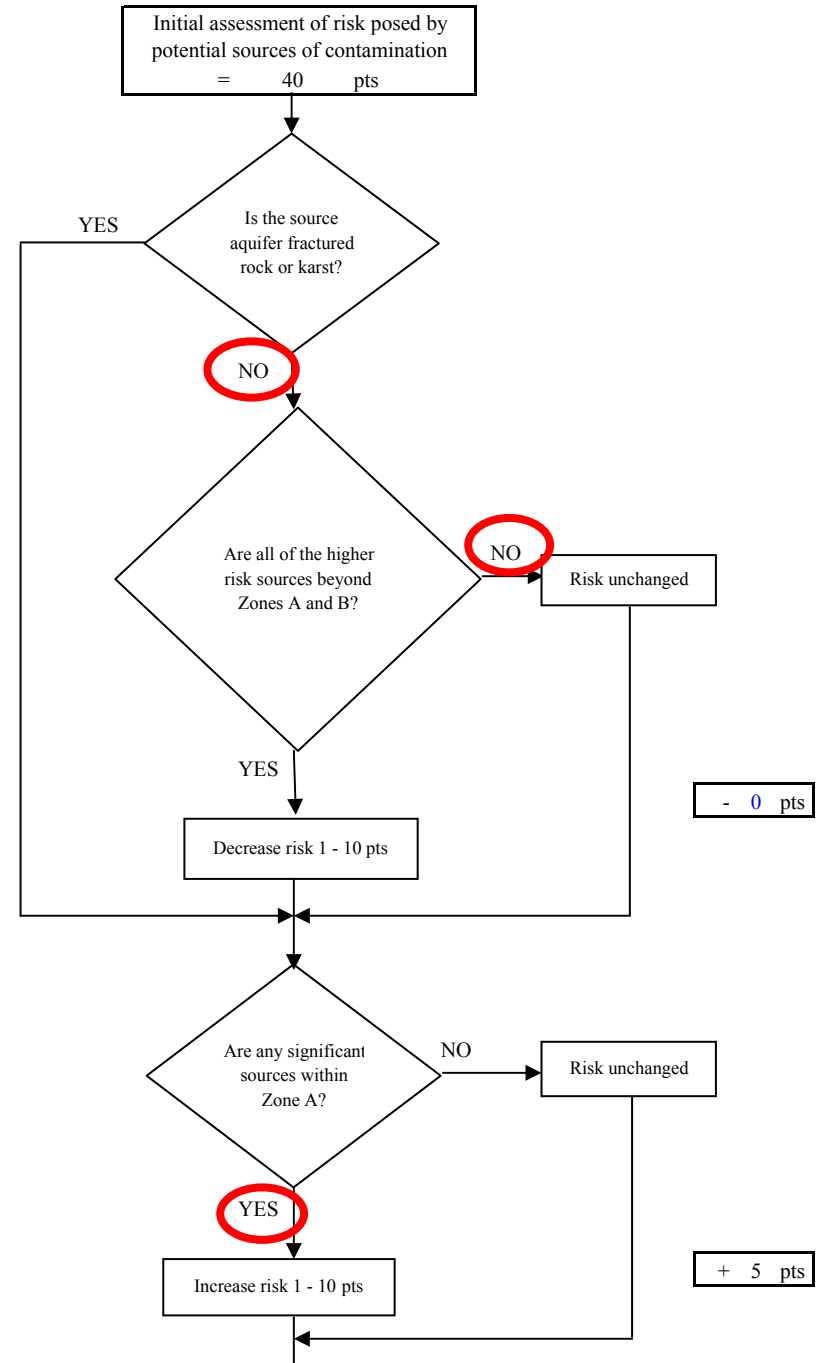
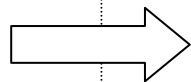


Chart 7. Contaminant risks for Mayflower Trailer Court - Volatile Organic Chemicals

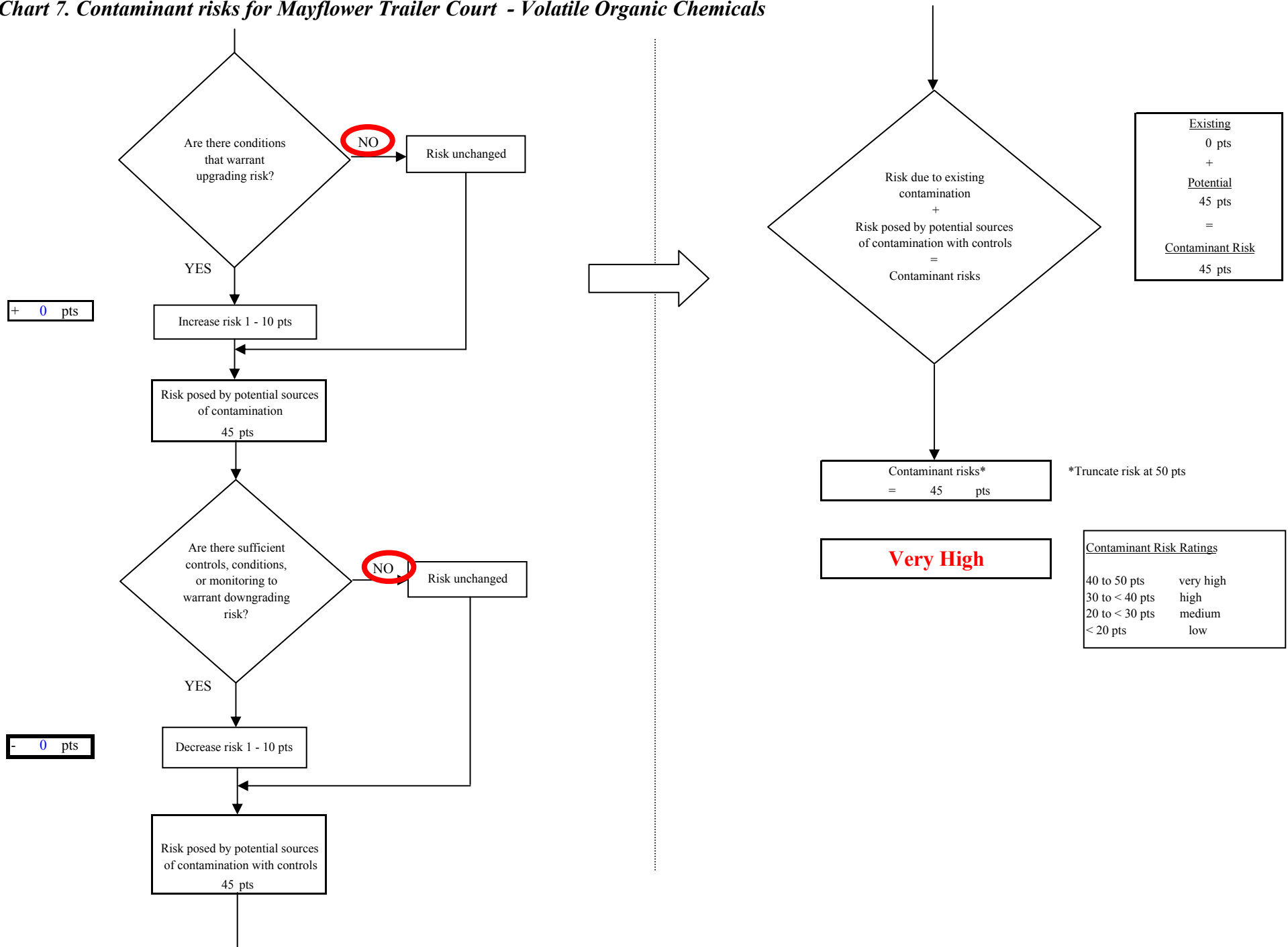


Chart 8. Vulnerability analysis for Mayflower Trailer Court - Volatile Organic Chemicals

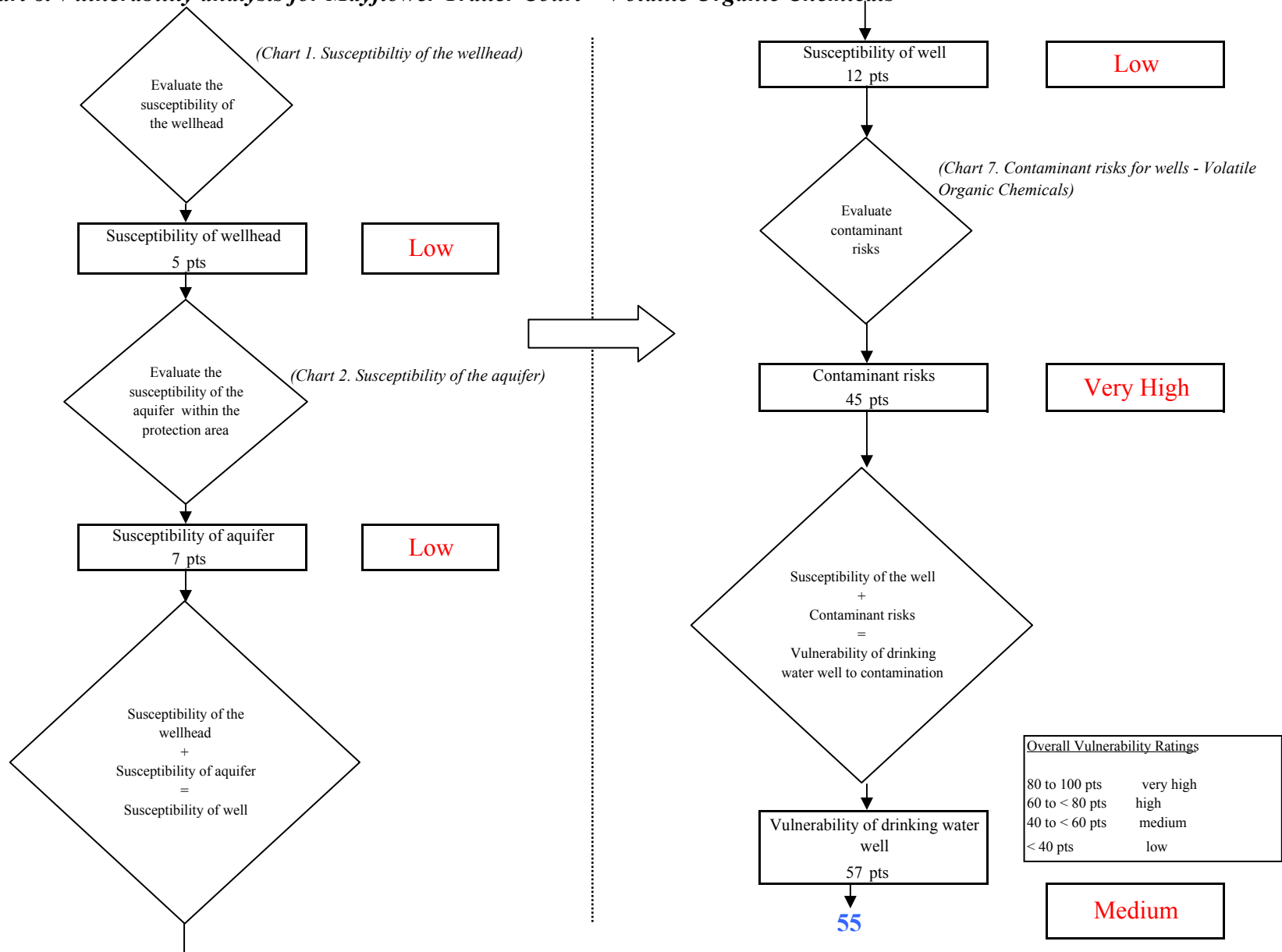


Chart 9. Contaminant risks for Mayflower Trailer Court - Heavy Metals, Cyanide and Other Inorganic Chemicals

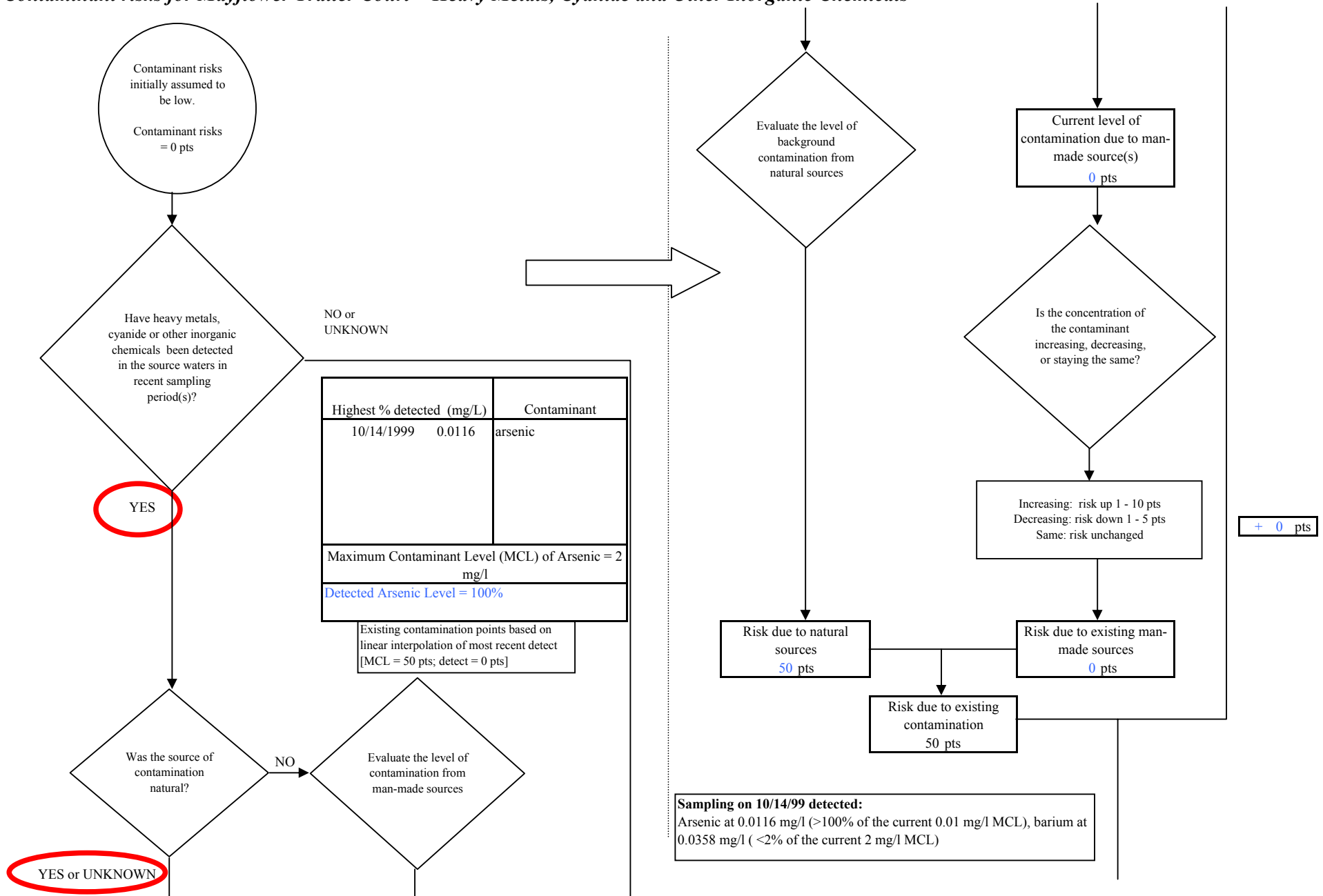


Chart 9. Contaminant risks for Mayflower Trailer Court - Heavy Metals, Cyanide and Other Inorganic Chemicals

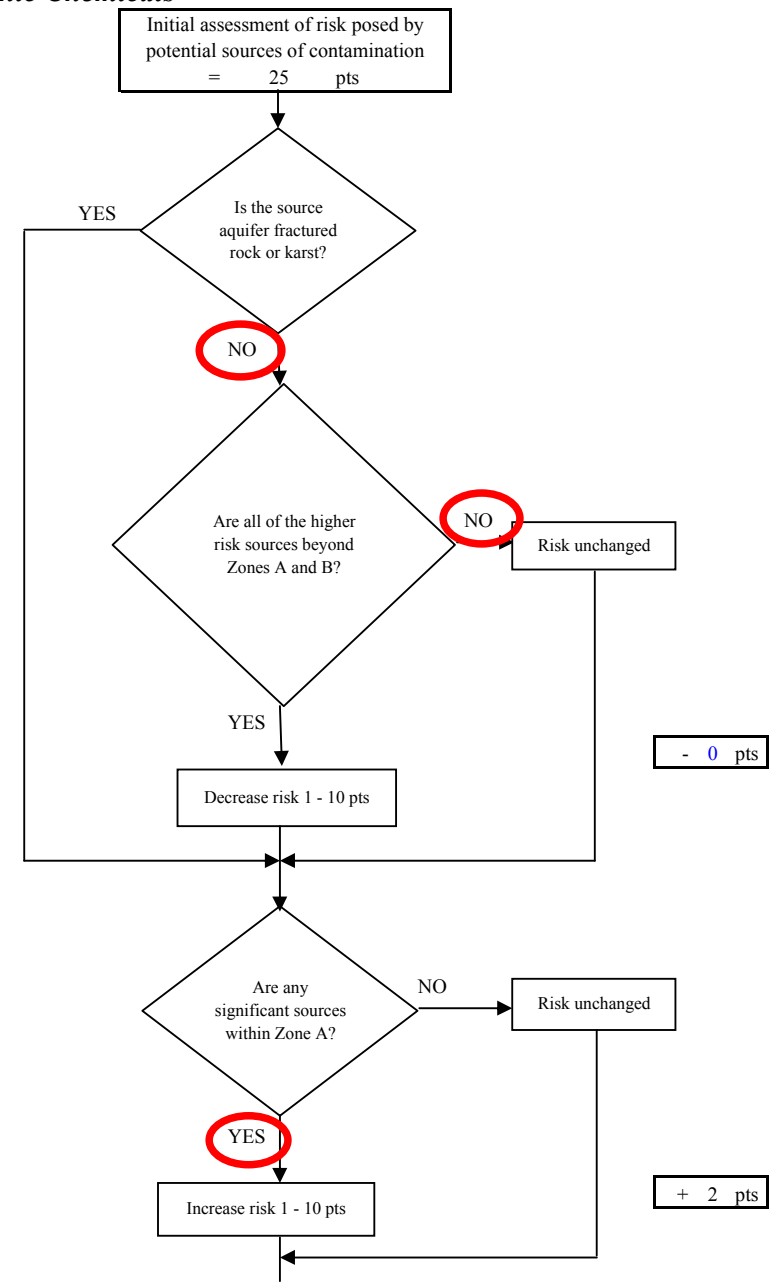
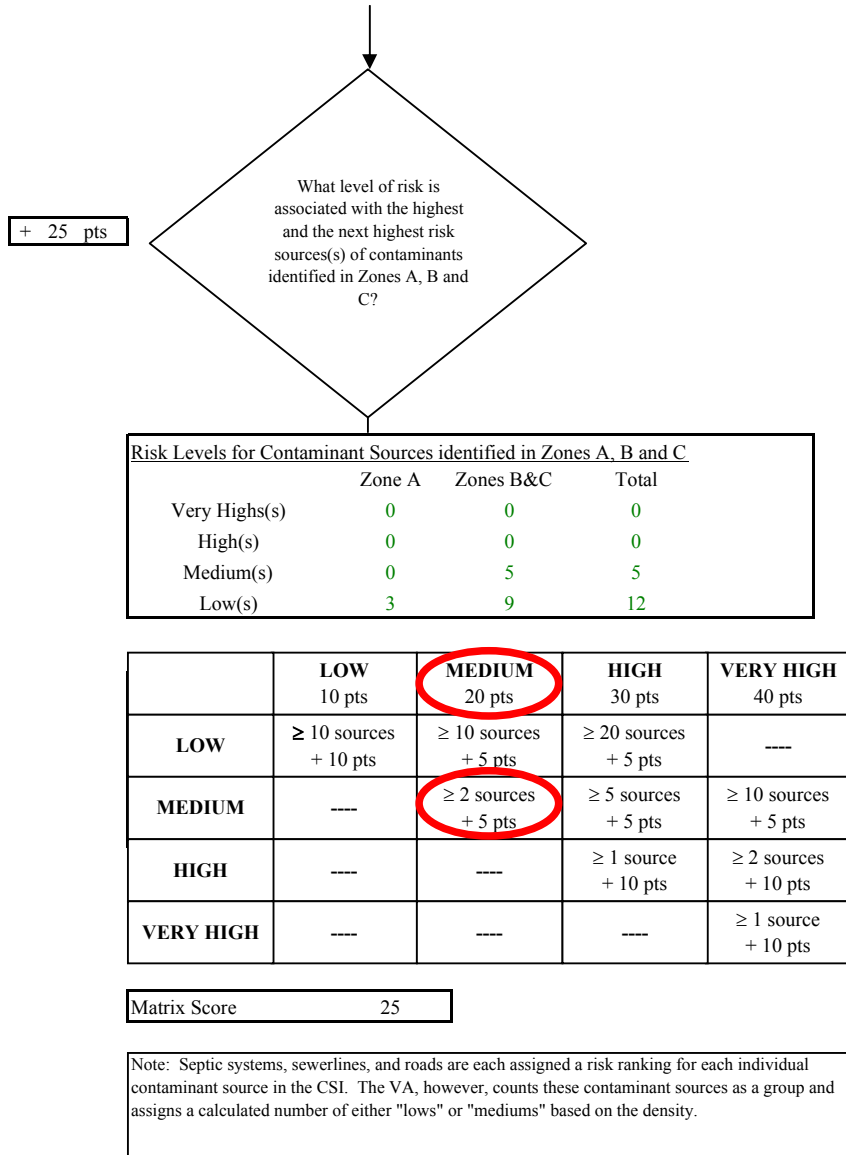


Chart 9. Contaminant risks for Mayflower Trailer Court - Heavy Metals, Cyanide and Other Inorganic Chemicals

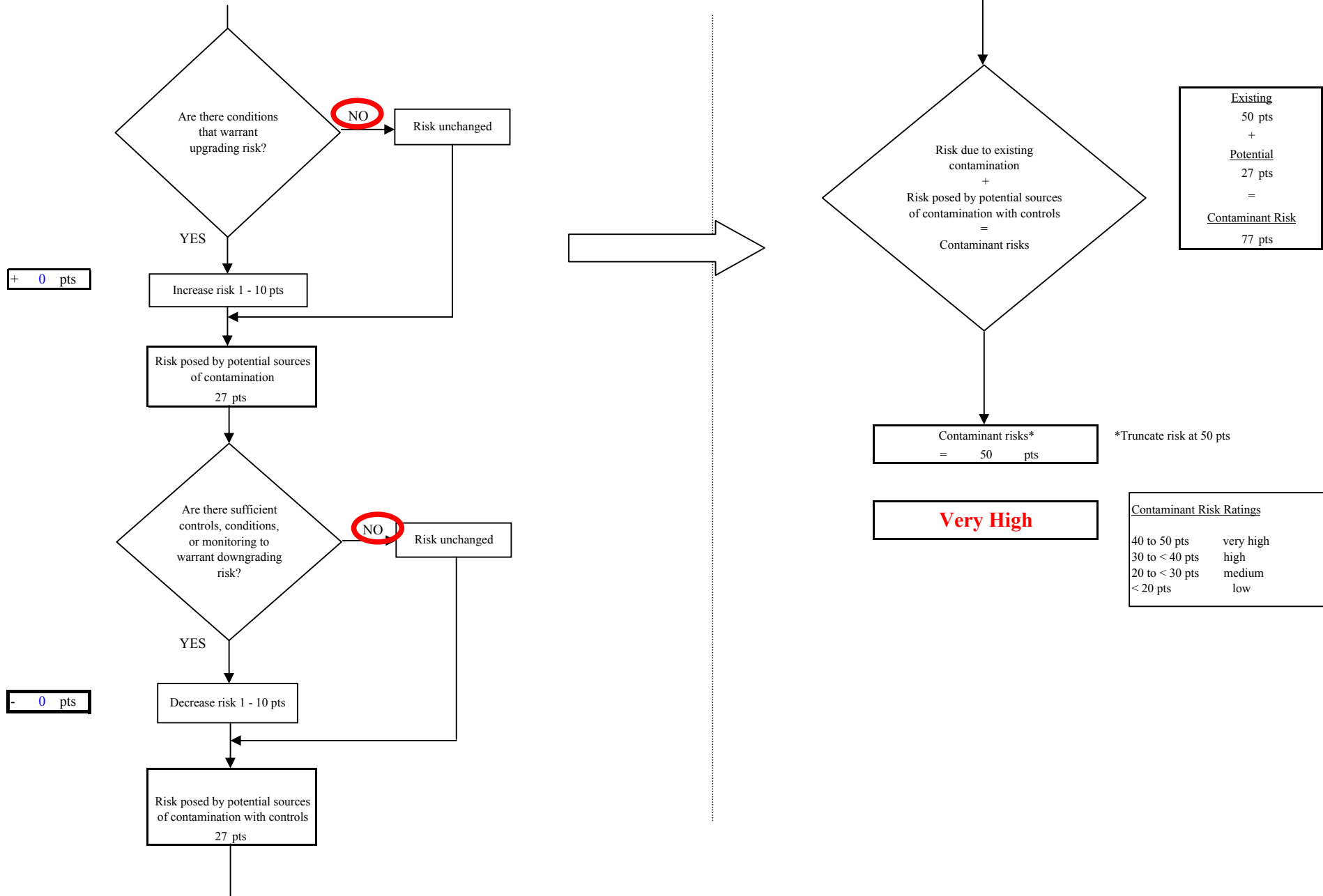


Chart 10. Vulnerability analysis for Mayflower Trailer Court - Heavy Metals, Cyanide and Other Inorganic Chemicals

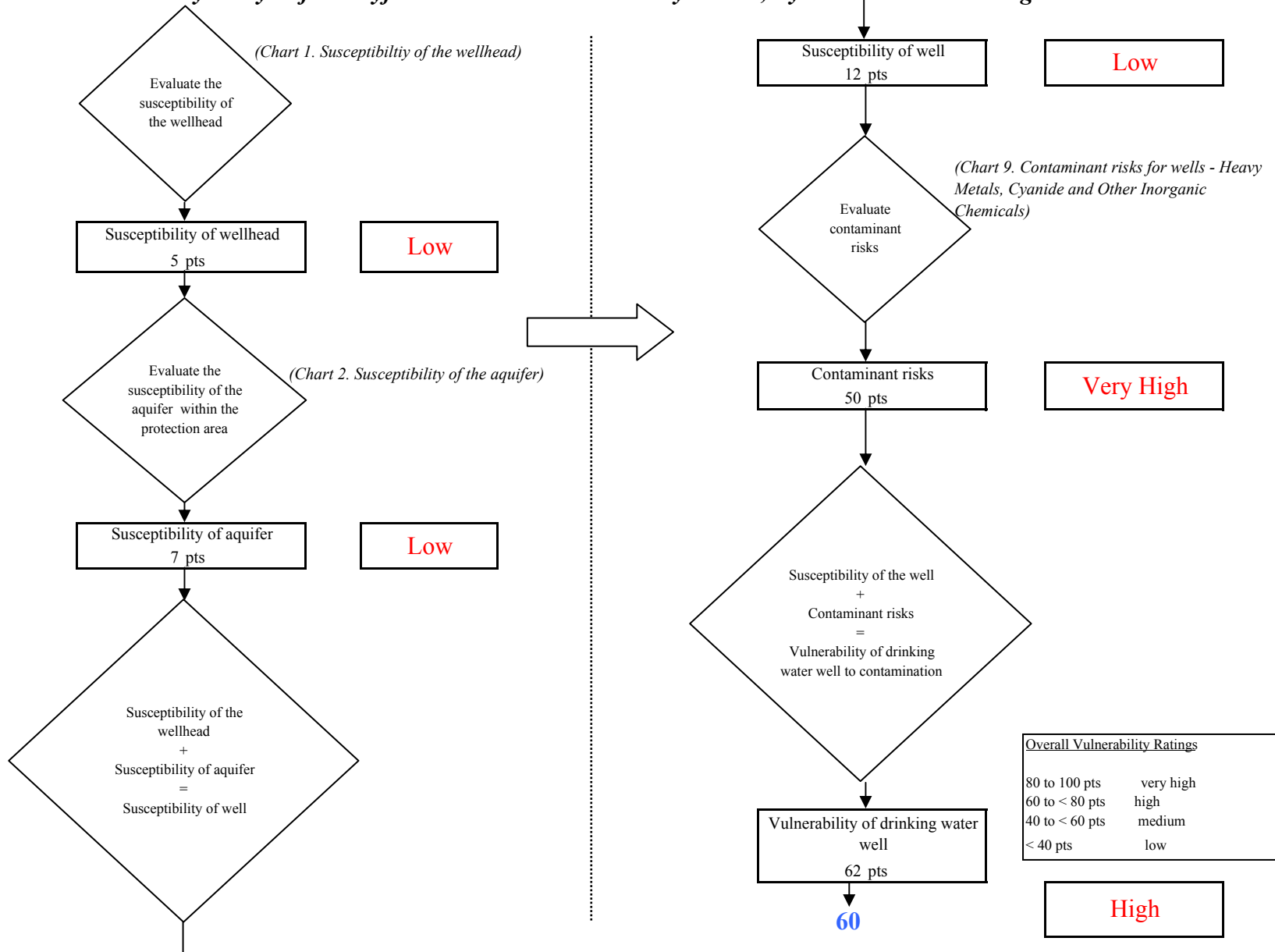


Chart 11. Contaminant risks for Mayflower Trailer Court - Synthetic Organic Chemicals

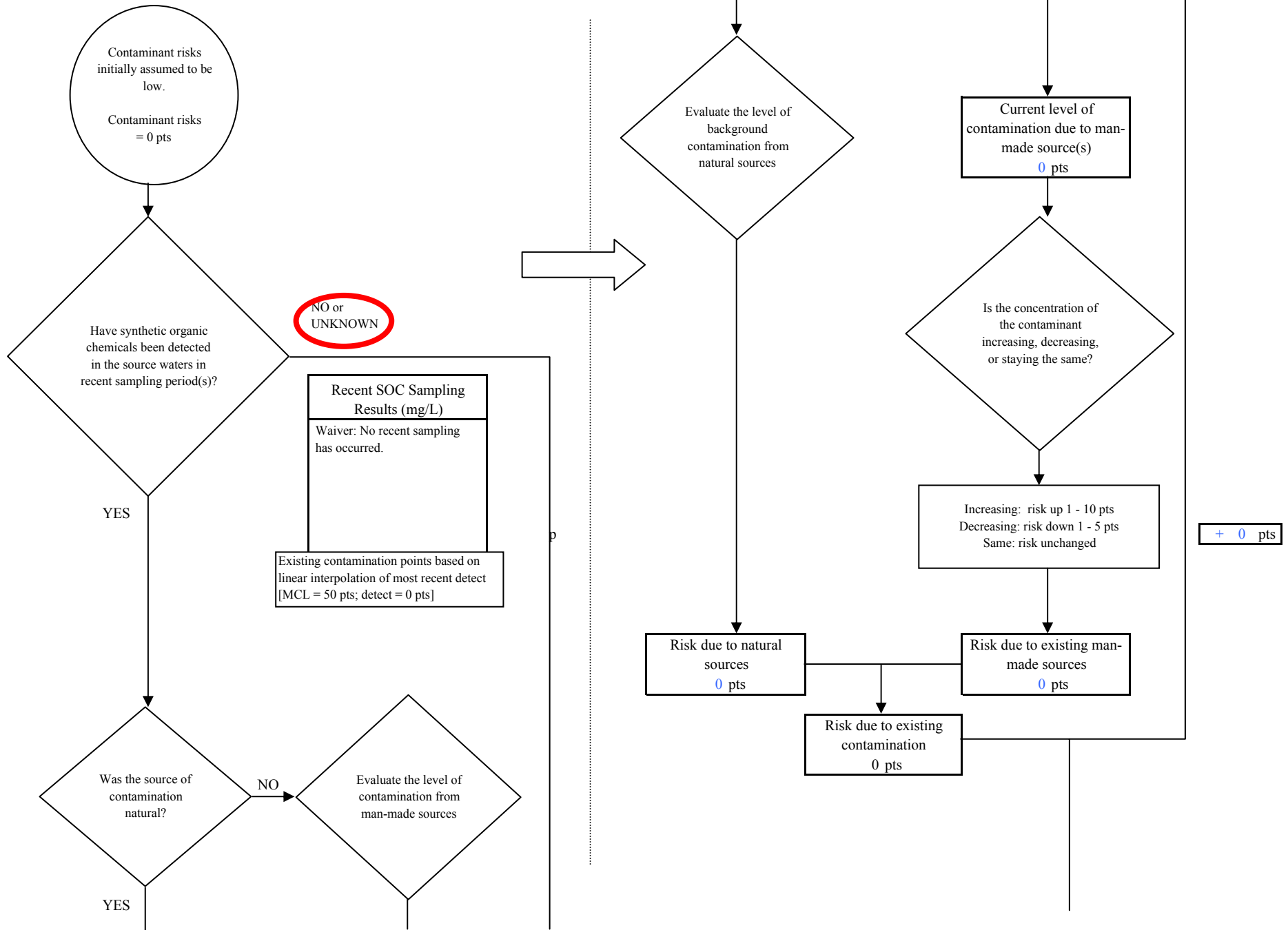
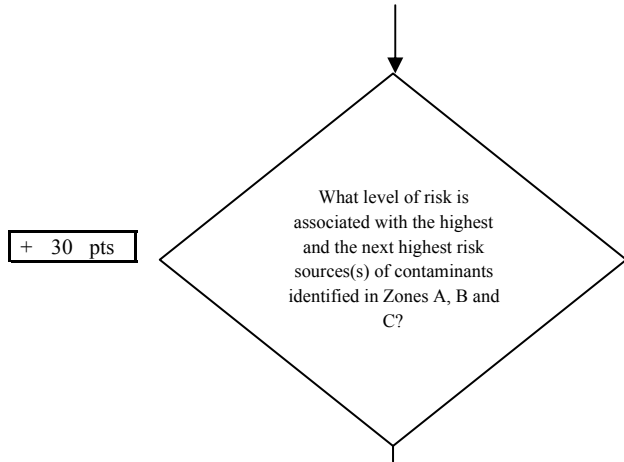


Chart 11. Contaminant risks for Mayflower Trailer Court - Synthetic Organic Chemicals



Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very Highs(s)	0	0	0
High(s)	0	1	1
Medium(s)	0	1	1
Low(s)	3	7	10

	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	----
MEDIUM	----	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	----	----	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	----	----	----	≥ 1 source + 10 pts

Matrix Score 30

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.

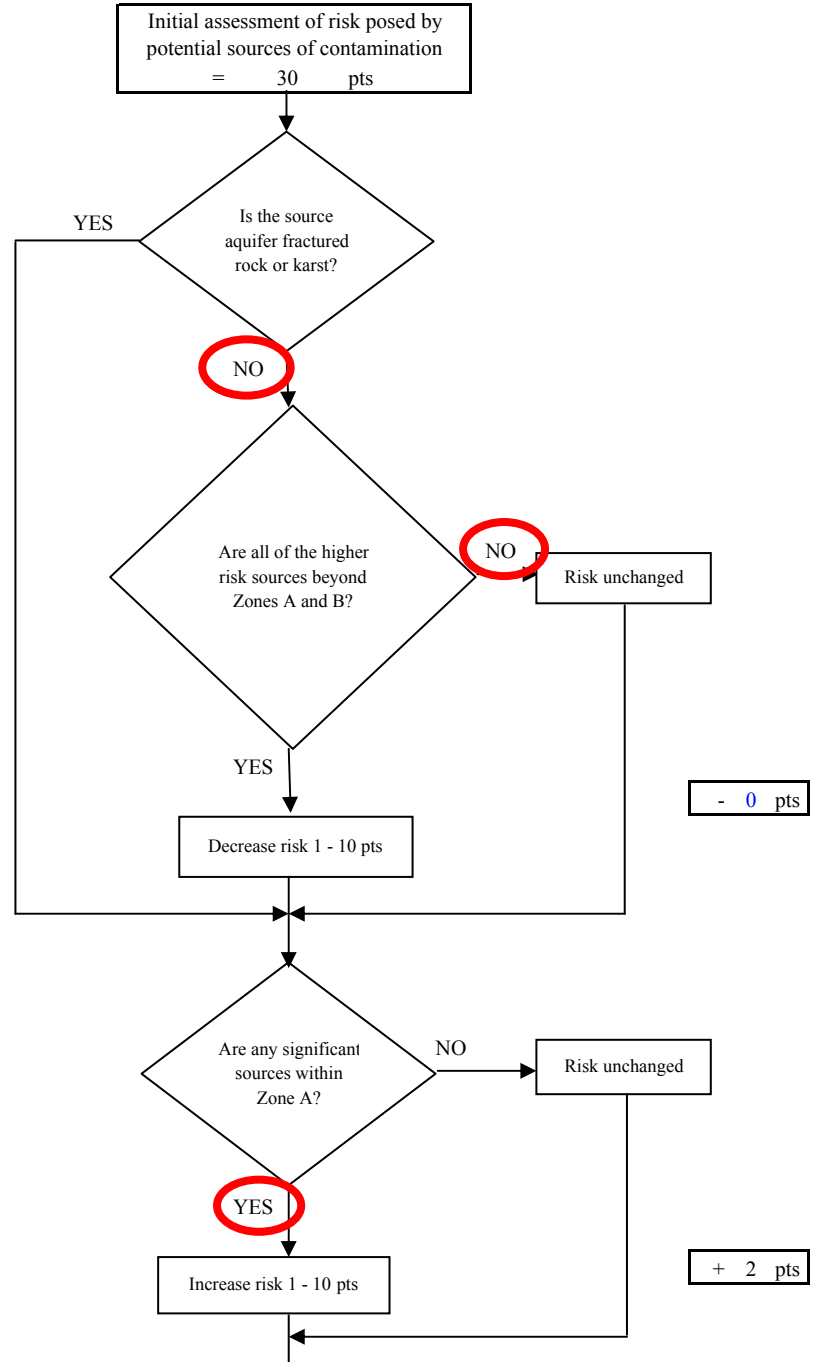
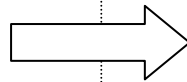


Chart 11. Contaminant risks for Mayflower Trailer Court - Synthetic Organic Chemicals

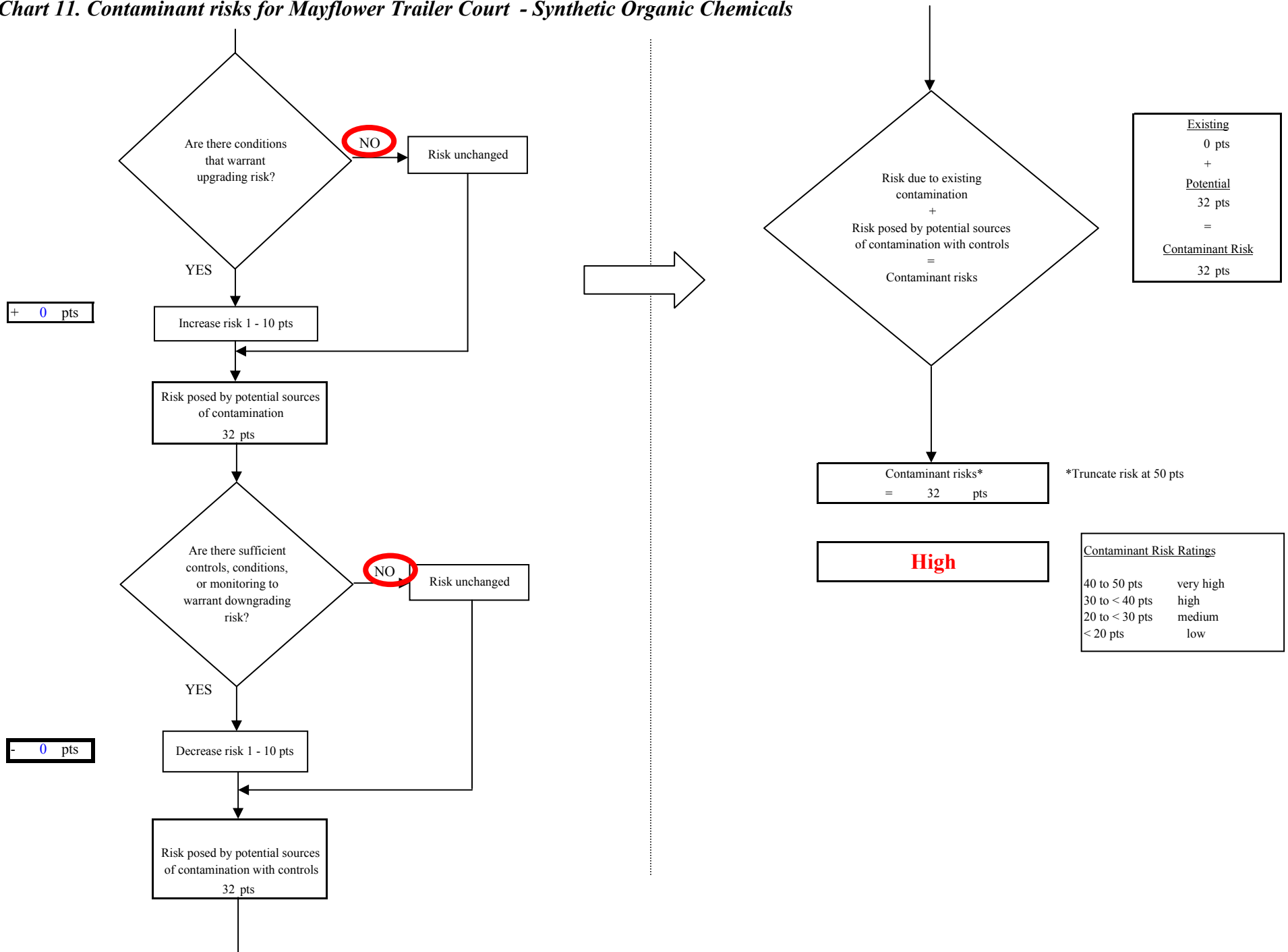


Chart 12. Vulnerability analysis for Mayflower Trailer Court - Synthetic Organic Chemicals

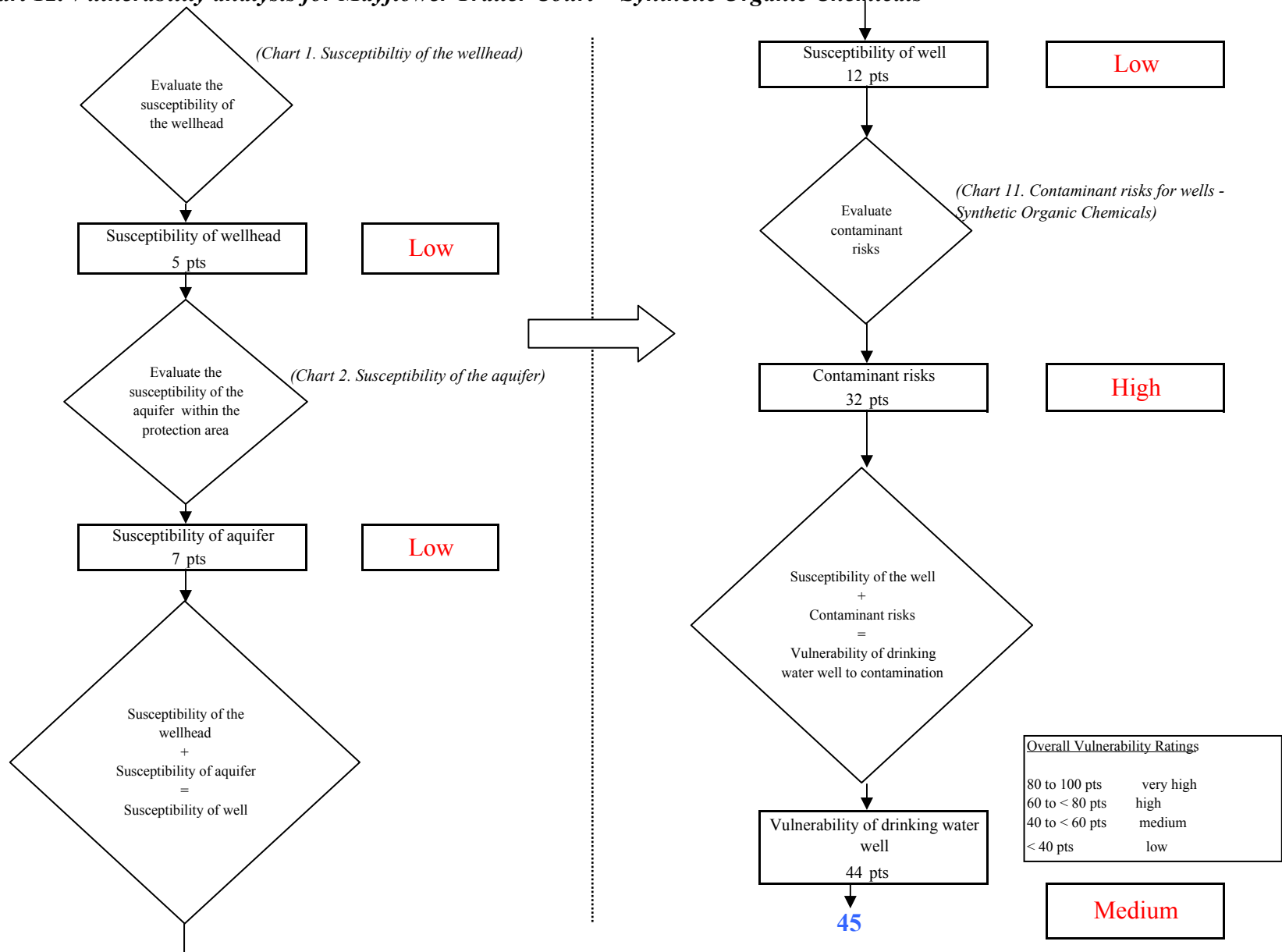


Chart 13. Contaminant risks for Mayflower Trailer Court - Other Organic Chemicals

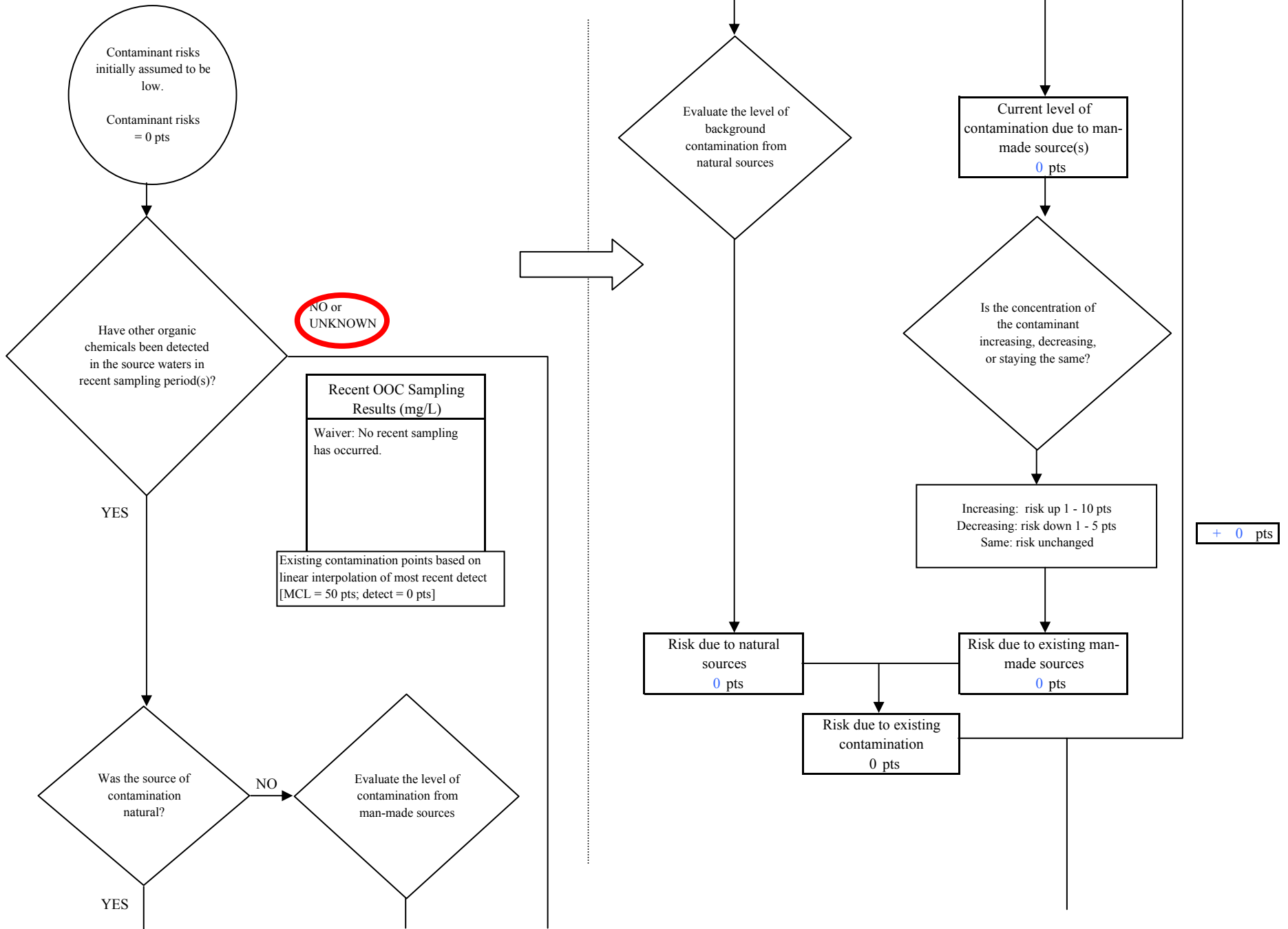
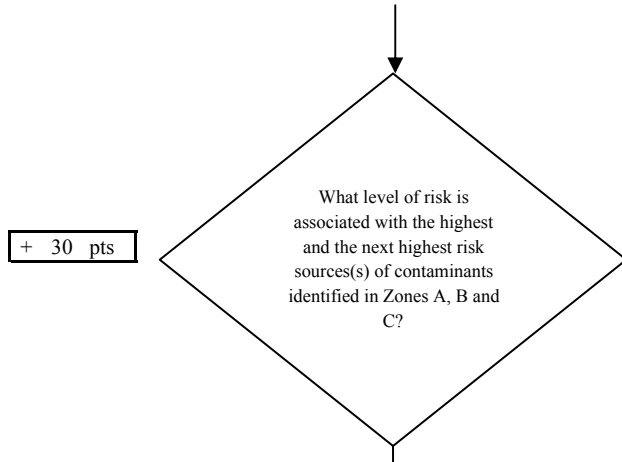


Chart 13. Contaminant risks for Mayflower Trailer Court - Other Organic Chemicals



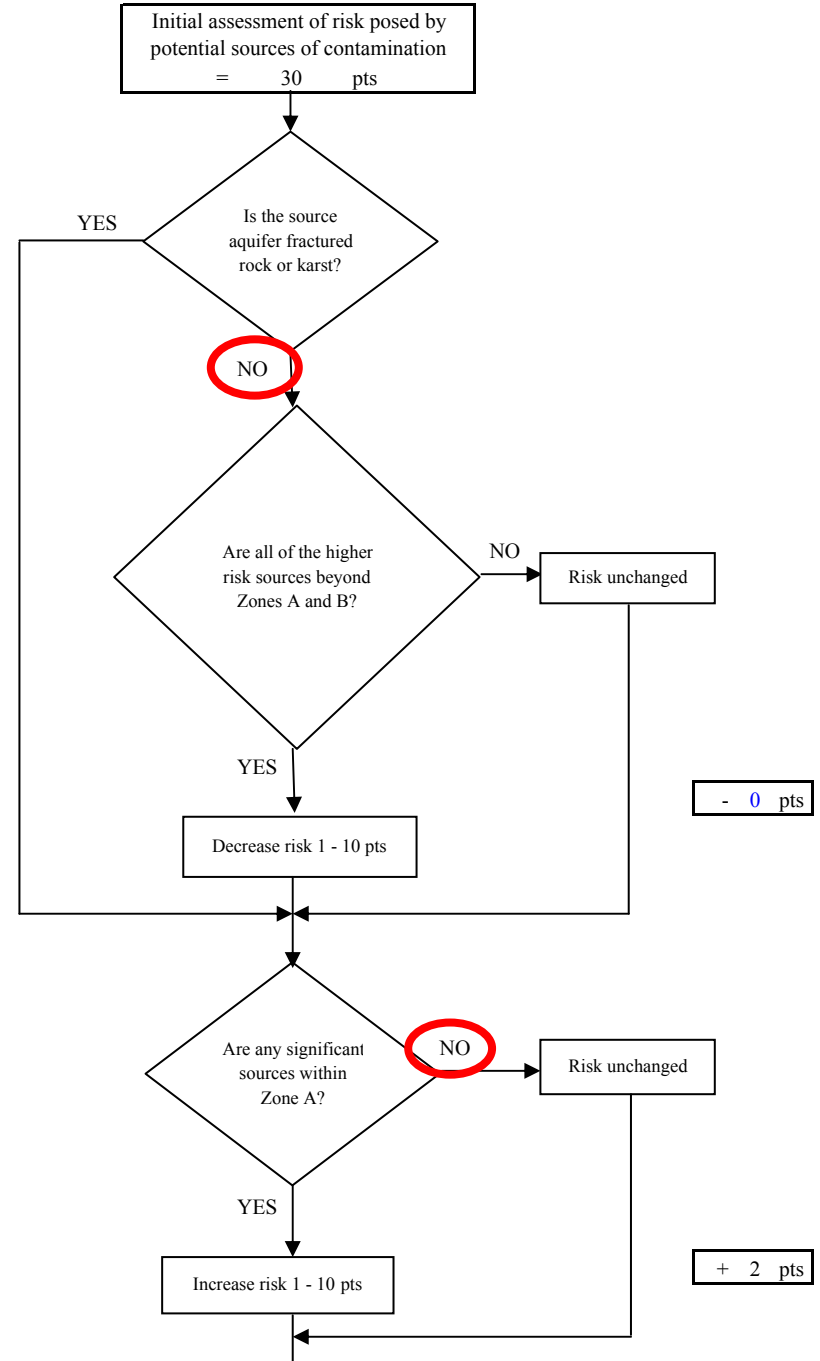
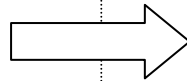
+ 30 pts

Risk Levels for Contaminant Sources identified in Zones A, B and C			
	Zone A	Zones B&C	Total
Very High(s)	0	0	0
High(s)	0	1	1
Medium(s)	0	3	3
Low(s)	3	3	6

	LOW 10 pts	MEDIUM 20 pts	HIGH 30 pts	VERY HIGH 40 pts
LOW	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	---
MEDIUM	---	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
HIGH	---	---	≥ 1 source + 10 pts	≥ 2 sources + 10 pts
VERY HIGH	---	---	---	≥ 1 source + 10 pts

Matrix Score 30

Note: Septic systems, sewerlines, and roads are each assigned a risk ranking for each individual contaminant source in the CSI. The VA, however, counts these contaminant sources as a group and assigns a calculated number of either "lows" or "mediums" based on the density.



- 0 pts

+ 2 pts

Chart 13. Contaminant risks for Mayflower Trailer Court - Other Organic Chemicals

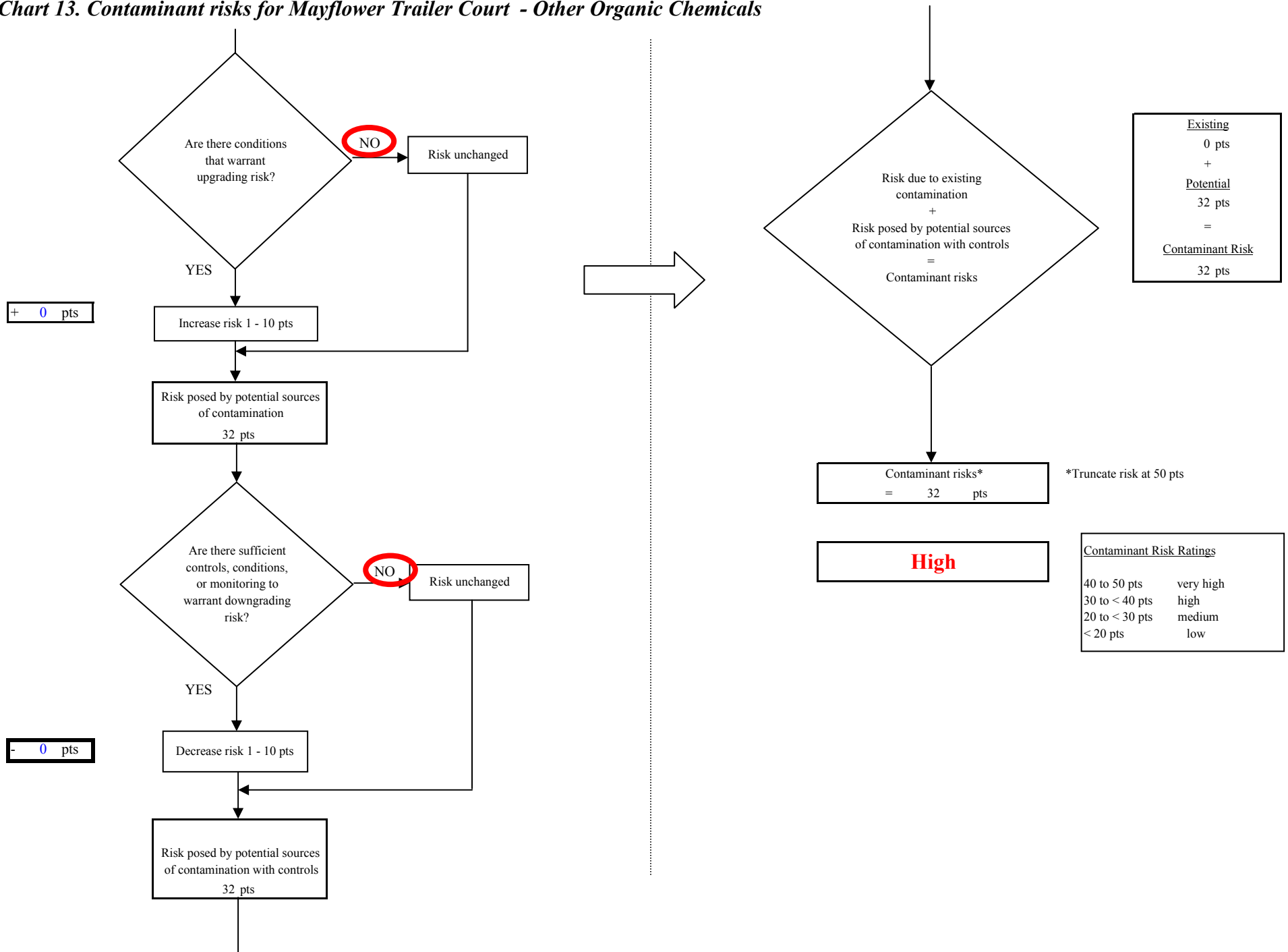


Chart 14. Vulnerability analysis for Mayflower Trailer Court - Other Organic Chemicals

