Hydrogeologic Susceptibility and Vulnerability Assessment for Manna Baptist Church Drinking Water Well, Palmer, Alaska

DRINKING WATER PROTECTION PROGRAM REPORT 120

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By Michael Baxter, B.E.S.T. Resource

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ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION: 2001

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Drinking Water Protection Program Alaska Department of Environmental Conservation

EXECUTIVE SUMMARY

The Manna Baptist Church is a Class B (transient/noncommunity) drinking water source consisting of one well. Identified potential and current sources of contaminants for Manna Baptist Church includes septic systems, residential acres, roads, class V injection wells and a construction site. These identified potential and existing sources of contamination are considered sources of bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals. Overall, Manna Baptist Church public water source received vulnerability rating of **High** for bacteria and viruses, nitrates and/or nitrites, and **Medium** for volatile organic chemicals.

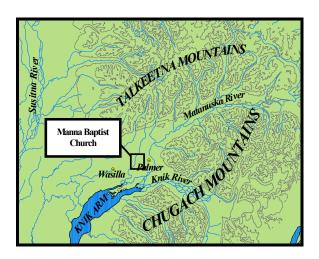


Figure 1. Index map showing the location of well assessment

INTRODUCTION

The purpose of this environmental assessment is to provide public water system owners/operators, communities, and local governments with information they can use to preserve the quality of Alaska's public drinking water supplies. This assessment was completed for the Manna Baptist Church source of public drinking water. This source consists of one well in the Palmer area (Figure 1). This assessment, known

under the Alaska Drinking Water Protection Program as the *Source Water Assessment*, has combined a review of the natural hydrogeologic sensitivity with potential and existing contaminant risks to arrive at an overall vulnerability of the drinking water source to contamination. This assessment has been completed as a basis for local voluntary protection efforts and to assist agencies in their efforts to reduce risk to this public drinking water supply.

DESCRIPTION OF THE PALMER-AREA, ALASKA

Location

The Matanuska-Susitna Valley is part of the lowland lying about 50 miles north of Anchorage in south-central Alaska. The well described in this report is part of the Matanuska River Task Order Area. This study area is roughly bounded on the north by the Talkeetna Mountains; on the west by Wasilla Creek; on the south by the Knik River; and on the east by the Chugach Mountains. The area covers approximately 150 square miles.

Climate

The climate of the Matanuska-Susitna Valley is the result of a combination of marine and continental influences. The 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 is approximately 15 inches per year. On the average, the Valley receives a total snow accumulation of 58 inches per year. Precipitation generally increased inland toward the Talkeetna Mountains where annual precipitation may exceed 60 inches per year [Barnwell, George, Dearborn, Weeks, and Zenone, 1972]. Mean daily temperature ranges from 67° F during July to 5° F in January [Western Regional Climate Center, 2000].

Physiography and Groundwater Conditions

The Matanuska-Susitna Valley is surrounded by rugged mountains that rise abruptly from its floor. The Chugach Mountains at the southern edge of the valley reach altitudes greater than 6300 feet. These mountains are composed primarily of metamorphosed sedimentary marine and volcanic rocks, and greenstone of Mesozoic age. Along the northern edge of the valley peaks in the Talkeetna Mountains reach altitudes of 3000 to 5000 feet. The Talkeenta Mountains are composed mainly of igneous rocks, chiefly granitic intrusives (Mesozoic?) and subordinate lavas and tuffs; Cretaceous and Tertiary sedimentary rocks form the south flank of the mountains. Although the altitude of the valley floor ranges from sea level at Knik Arm to 1000 feet at the base of Wishbone Hill, the local relief is commonly not more than 100 to 200 feet.

The area is drained by the Matanuska and Knik Rivers. These rivers are braided glacial outwash streams having wide floodplains. Drainage is poor in many interstream tracts resulting in large areas of swampy ground with shallow lakes occupying depressions.

The Matanuska-Susitna Valley is floored with unconsolidated deposits, chiefly glacial drift, that represents several episodes of glacial advances and retreats. The drift includes till, outwash stream deposits, and estuarine and lake deposits. Physiographic features formed by these deposits in or adjacent to the study area include end moraine, lateral moraines, eskers, crevasses fillings, and other pitted features, river terraces, outwash floodplains and an extensive estuarine flat.

The glacial till and bedrock form aquifers of minor importance. The chief hydrologic significance of the till is in confining the artesian aquifer. Generally, the till is poorly permeable, although locally thin layers of sand may yield small quantities of water. Till that is present at or near the land surface in much of the area makes the acquisition of shallow groundwater difficult. The bedrock also is poorly permeable. It yields water only from fractures, whose location and frequency cannot be easily predicted.

The chief aquifers are composed of outwash sand and gravel laid down by melt-water streams or in lakes. The outwash deposits are of two chief forms. The first consists of sheetlike deposits that lie just beneath the ground surface. These deposits range in thickness from a few feet to more than 100 feet. They typically rest on till of bedrock. The water in these deposits is unconfined. The other outwash deposits are buried beneath till. They are known to be as much as 50 to 60

feet thick, and probably are considerably thicker in some places. They commonly contain confined, or artesian, groundwater. Well logs and data from pumping tests suggest that outwash sand and gravel form a continuous or nearly continuous sheet in an area of more than 10 square miles north and west of Palmer.

Recharge of the groundwater is chiefly from precipitation but it is likely that only a small proportion of the annual precipitation reaches the water body. During very dry seasons conspicuous declines in of water levels occur in many wells. Along the mountain fronts, groundwater seeps from fractures in bedrock into the sediments. At these higher elevations, rain and snowmelt also enter the sediments. Lastly, aguifers may be recharged by streams where surface water percolates into surrounding permeable sediments (losing reaches of streams). This is the case for the water-table aquifers in the terrace south of Palmer and in the Bodenberg Butte area, which receive underground flow from the Matanuska River. Groundwater flow in the confined aguifers is generally from the north and northnorthwest. 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.

MANNA BAPTIST CHURCH PUBLIC WATER SOURCE

Manna Baptist Church public water source is a Class B (transient/noncommunity) water source, which is privately owned and operated. The source consists of one west of Palmer and is at an elevation of 300 feet above sea level. The well is located on the Palmer-Wasilla highway and 5 miles west of Palmer. According to the well log, Manna Baptist Church appears to be grouted and functioning properly. The well penetrates gravel and silty sand with gray clay 224 feet below land surface. The well is screened for 3 and has a static water level of 135 feet below land surface at the time of drilling (4/9/99).

The water from Manna Baptist Church consists of one hydropneumatic pressure tanks, jet pump and one atmospheric storage tanks. This water source operates year round. The Manna Baptist Church drinking water source collectively serves approximately 105 residents and non-residents through one service connections.

ASSESSMENT AND PROTECTION AREA FOR MANNA BAPTIST CHURCH DRINKING WATER SOURCE

The Drinking Water Protection and Assessment Area that has been established for Manna Baptist Church is

the area that is most sensitive to contamination. This area has served as a basis for assessing the risk of the drinking water source to contamination. This zone around the drinking water source is the most critical area for the preservation of the quality of the drinking water for this source. For simplicity, this area will be known as your Drinking Water Protection Area and will serve as the area of focus for voluntary protection efforts.

Conceptually, groundwater enters the aquifer systems along the front range of the Talkeetna and Chugach Mountains and flows toward Cook Inlet. An analytical calculation was used to calculate the size and shape of the area that contributes water to the well. 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). This analytical calculation was used as a guide as the first step in establishing the protection area for Manna Baptist Church. Additional methods were further employed to take into account any uncertainties in groundwater flow and aquifer characteristics to arrive at a meaningful and conservative protection area with respect to public health (Please refer to the Guidance Manual for Class B Public Water Systems for additional information).

The Drinking Water Protection Areas established for wells by the Alaska Department of Environmental Conservation (ADEC) are separated into zones. These zones correspond to a time-of-travel. Time-of-travel is the time required for water to move in the saturated zone of the ground from a specific point to the well. The Drinking Water Protection Areas for Manna Baptist Church contain four zones. Zone A. Zone B. Zone C and Zone D (See Map 1 in Appendix A). Zone A corresponds to the area between the well and the distance equal to 1/4 of the distance of the 2-year timeof-travel. Depending on where a contaminant source is located within Zone A, travel time for a contaminant to the well may be on the order of several days to several hours. Zone A also extends down gradient from the well to take into account the area of the aquifer that is influenced by pumping of the well.

The Zone B protection area for Manna Baptist Church corresponds to a time-of-travel of less than two years and extends toward to base of the Talkeetna Mountains. Zone C protection area extends from Zone B to Zone D, which extends towards the Talkeetna Mountains.

INVENTORY OF POTENTIAL AND EXISTING CONTAMINANT SOURCES

The Drinking Water Protection Program has completed an inventory of potential and existing sources of contamination within Manna Baptist Church Drinking Water Protection Area. This survey was completed through a search of ADEC records and other publicly available information

Potential sources of contamination to drinking water supplies cover 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 this assessment and all Class B public water system assessments, three categories of drinking water contaminants were inventoried. They include:

- Bacteria and viruses;
- Nitrates and/or nitrites;
- Volatile organic chemicals;

Map 1 in Appendix C depicts the Contaminant Source Inventory for Manna Baptist Church. Inventoried potential sources of contamination within Zones A through Zone C were associated with residential and light industrial activity. Below is a summary of the contaminant sources inventoried within the Manna Baptist Church protection area:

- Residential lawn and gardens
- Septic systems
- Roads
- Class V injection wells
- Construction area;

This potential contaminant source presents risks for all three categories of drinking water contaminants for Manna Baptist Church drinking water source.

RANKING OF CONTAMINANT RISKS

Potential and existing sources of contamination have been identified, sorted, and ranked 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. Contaminant risks are further a function of the number and density of those types of contaminant sources as well as the proximity of those sources to the well.

VULNERABILITY OF MANNA BAPTIST CHURCH DRINKING WATER SOURCES

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

- natural susceptibility; and
- contaminant risks.

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

Natural Susceptibility (0 - 50 points)

+

Contaminant Risks (0 - 50 points)

=

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)

Manna Baptist Church is completed in a confined or semi-confined aquifer setting. The well penetrates 224 feet of sand and gravel with one clay bearing layer. This clay layer, encountered at 150 to 221 feet below land surface, may provide somewhat of a protective barrier for the movement of contaminants in the subsurface. However, near the base of the Talkeetna Mountains, the clay and till layers tend to be discontinuous and thin toward the mountains. Therefore, contaminants that enter the subsurface near the base of the mountains may enter the confined aguifer uninhibited by the absence of any protective layer. This well does not appear to be properly grouted as indicated previously from information obtained from ADEC records. The absence of grouting can promote the transport of contaminants along the well casing. Combining the susceptibility of the wellhead and the aguifer to contamination leads to a score (0 - 50 points)and rating of overall Susceptibility (See Appendix D). Table 1 shows the overall Susceptibility score and rating for Manna Baptist Church.

Table 1. Natural Susceptibility - Susceptibility of the Wellhead and Aquifer to Contamination

	Score	Rating
Susceptibility of the Wellhead	0	Low
Susceptibility of the Aquifer	19	High
Natural Susceptibility	19	Low

Contaminant risks to a drinking water source depend on the type, number or density, and distribution of contaminant sources. Septic systems, residential acres, roads, class V injection wells and a construction site contributes the highest and only identified risks for potential contamination to the Manna Baptist Church source of public drinking water.

A score (0-50 points) and rating of Contaminant Risks (See Appendix D) is assigned based on the findings of the Contaminant Source Inventory (Appendix B - Table 1-Table 7). This portion of the analysis examines any existing or historical contamination that has been detected at the drinking water source through routine sampling. It also reviews contamination that has or may have occurred but has not arrived or been detected at the well. Table 2 summarizes the Contaminant Risks for each category of drinking water contaminants.

Table 2. Contaminant Risks

Score	Rating
44	High
45	Very High
24	Medium
	44 45

Appendix D contains eight 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 8 contain the Contaminant Risks and Vulnerability Analysis for nitrates and nitrites and volatile organic chemicals, respectively.

Vulnerability of the drinking water source to contamination is the combination of susceptibility of the aquifer and the well with contaminant risks. Table 3 contains the overall vulnerability scores (0-100) and ratings for each of the three categories of drinking water contaminants (See Appendix D). Note: scores are rounded off to the nearest five.

Table 3. Overall Vulnerability of Manna Baptist Church Public Drinking Water Source to Contamination by Category

Category	Score	Rating
Bacteria and Viruses	65	High
Nitrates and Nitrites	65	High
Volatile Organic Chemicals	24	Medium

Tables 2 through 4 in Appendix B contain the ranking of potential and existing sources of contamination with respect to bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals.

The roads, residential acres, class V injection well, construction area and septic systems in Zones A-C are the factors determining contaminant risks for all categories of contaminants (See "Overall Rank after Analysis" in Table 2-4 of Appendix B).

Bacteria and Viruses were not detected in the source waters of Manna Baptist Church. Overall, contaminant risk for the bacteria and viruses is high due to the roads, residential acres, class V injection well, construction area and septic systems. This rating combined with the susceptibility of the well yields an overall rating of high vulnerability to contamination for this category.

Sampling history of Manna Baptist Church source waters indicate concentrations of nitrate (See Chart 6 – Contaminant Risks for Nitrates/Nitrites in Appendix D). Existing nitrate contamination is approximately 1.8% of the allowable limit (MCL) for this contaminant. Due to the high solubility and weak retention by soil, nitrates are very mobile in soil, moving at approximately the same rate as water. The current nitrate concentration in Manna Baptist Church remains at safe levels with respect to human health.

Overall, contaminant risk for the nitrate/nitrite category is very high due to the roads, residential acres, class V injection well, construction area and septic systems present up gradient from the well. Combining potential

nitrate and/or nitrite contamination risk with the susceptibility of the well yields an overall high vulnerability to contamination in this category.

Volatile Organic Chemicals were not detected in the source waters of Manna Baptist Church. Overall, a contaminant risk for the volatile organic chemicals category is medium due to the roads, residential acres, class V injection well, construction area and septic systems present up gradient from the well. Combining the contaminate risk with the susceptibility of the well yields an overall medium vulnerability to contamination for Volatile Organic Chemicals.

SUMMARY

A Source Water Assessment has been completed for the Manna Baptist Church source of public drinking water. The overall vulnerability of this source to contamination is **High** for bacteria and viruses, nitrates and/or nitrites, and **Medium** for volatile 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 the Manna Baptist Church 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 the public drinking water source.

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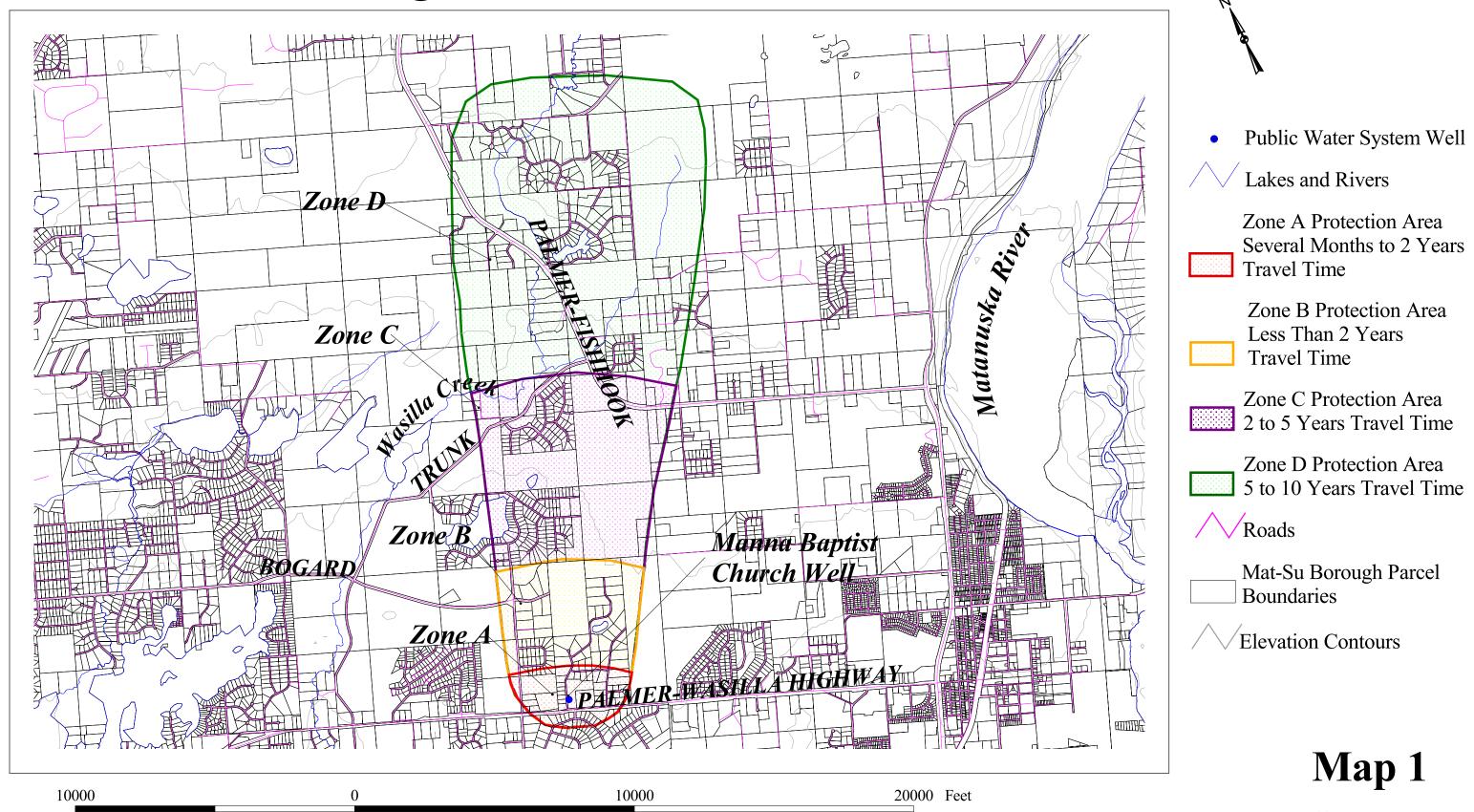
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APPENDIX A

Manna Baptist Church Drinking Water Protection Area

Manna Baptist Church (PWSID 227716) Drinking Water Protection Areas



APPENDIX B

Contaminant Source Inventory and Risk Ranking for Manna Baptist Church

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Class V Injection Well	D10	D10-1	A	Manna Baptist Church	3	
Class V Injection Well	D10	D10-2	A	Arabian Acres	3	
Lawns and gardens	R1	R1-1	A	Located south of the well	3	Zone A contains 9 acres
Lawns and gardens	R1	R1-2	В	Located northwest of the well	2	Zone B contains 29 acres
Lawns and gardens	R1	R1-3	С	Located northwest of the well	4	Zone C contains 146 acres
Lawns and gardens	R1	R1-4	С	Located northwest of the well	4	Zone C contains 104 acres
Septic systems (serves one or more single-family homes)	R2	R2-225	A	Palmer-Wasilla Hwy	3	
Septic systems (serves one or more single-family homes)	R2	R2-226	A	Summerwood	3	
Septic systems (serves one or more single-family homes)	R2	R2-227	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-228	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-229	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-230	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-231	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-232	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-233	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-234	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-235	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-236	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-237	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-238	A	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-1	В	Ortner	3	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family						
homes)	R2	R2-2	A	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-3	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-4	Α	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-5	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-6	Α	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-7	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-8	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-9	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-10	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-11	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-12	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-13	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-14	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-15	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-16	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-17	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-18	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-19	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-20	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-21	В	Ortner	3	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family						
homes)	R2	R2-22	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-23	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-24	В	Ortner	3	
Septic systems (serves one or more single-family						
homes)	R2	R2-25	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-26	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-27	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-28	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-29	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-30	В	Ortner	3	
Septic systems (serves one or more single-family				_	_	
homes)	R2	R2-31	В	Ortner	3	
Highways and roads, dirt/gravel	X20	X20-1	Α	Summerwood	2	
Highways and roads, dirt/gravel	X20	X20-2	Α	Strand	2	
Highways and roads, dirt/gravel	X20	X20-3	A	Palmer-Wasilla Hwy	2	
Highways and roads, dirt/gravel	X20	X20-4	A	Cody	2	
Highways and roads, dirt/gravel	X20	X20-5	A	Laurel	2	
Highways and roads, dirt/gravel	X20	X20-6	A	Witez II	2	
Construction Trade Area	C9	C9-1	В	RH Excavating	2	
Highways and roads, dirt/gravel	X20	X20-7	В	Ortner	2	
Highways and roads, dirt/gravel	X20	X20-8	В	Northstar	2	
Highways and roads, dirt/gravel	X20	X20-9	В	Hassen Bey	2	
Highways and roads, dirt/gravel	X20	X20-10	В	Colony	2	
Highways and roads, dirt/gravel	X20	X20-11	B,C	49th State	2	
Highways and roads, dirt/gravel	X20	X20-12	В	Caribou	2	
Highways and roads, dirt/gravel	X20	X20-13	В	Colony Schools	2	
Highways and roads, dirt/gravel	X20	X20-14	В	Dove	4	
Highways and roads, dirt/gravel	X20	X20-15	В	Sparrow	4	
Highways and roads, dirt/gravel	X20	X20-16	В	Seagull	4	
Highways and roads, dirt/gravel	X20	X20-17	В	Puffin	4	
Highways and roads, dirt/gravel	X20	X20-18	В	Tern	4	
Highways and roads, dirt/gravel	X20	X20-19	В	Trunk	4	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Highways and roads, dirt/gravel	X20	X20-20	В	Teakwood	4	
Highways and roads, dirt/gravel	X20	X20-21	В	Forestwood	4	
Highways and roads, dirt/gravel	X20	X20-22	В	Hazelwood	4	
Highways and roads, dirt/gravel	X20	X20-23	В	Birch Forest	4	
Highways and roads, dirt/gravel	X20	X20-24	В	Olivewood	4	
Highways and roads, dirt/gravel	X20	X20-25	В	Oakwood	4	
Highways and roads, dirt/gravel	X20	X20-26	В	Baywood	4	
Highways and roads, dirt/gravel	X20	X20-27	В	Palmer-Fishhook	4	
Highways and roads, dirt/gravel	X20	X20-28	В	Heaton	4	
Septic systems (serves one or more single-family	D2	D2 21	D	0.4	3	
homes)	R2	R2-31	В	Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-32	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-33	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-34	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-35	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-36	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-37	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-38	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-39	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-40	C	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-41	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-42	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-43	С	Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-44	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-45	С	Forestwood	6	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-46	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-47	C	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-48	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-49	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-50	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-51	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-52	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-53	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-54	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-55	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-56	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-57	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-58	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-59	С	Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-60	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-61	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-62	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-63	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-64	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-65	С	Hazelwood	6	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-66	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-67	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-68	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-69	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-70	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-71	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-72	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-73	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-74	С	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-75	С	Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-76	С	Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-77	С	Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-78	С	Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-79	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-80	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-81	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-82	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-83	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-84	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-85	С	Birch Forest	6	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-86	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-87	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-88	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-89	С	Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-90	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-91	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-92	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-93	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-94	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-95	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-96	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-97	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-98	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-99	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-100	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-101	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-102	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-103	С	Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-104	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-105	С	Oakwood	6	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-106	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-107	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-108	С	Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-109	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-110	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-111	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-112	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-113	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-114	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-115	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-116	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-117	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-118	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-119	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-120	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-121	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-122	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-123	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-124	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-125	С	Seagull	5	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-126	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-127	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-128	С	Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-129	С	Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-130	С	Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-131	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-132	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-133	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-134	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-135	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-136	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-137	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-138	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-139	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-140	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-141	С	Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-142	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-143	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-144	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-145	C	Tern	5	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-146	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-147	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-148	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-149	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-150	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-151	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-152	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-153	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-154	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-155	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-156	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-157	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-158	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-159	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-160	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-161	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-162	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-163	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-164	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-165	С	Puffin	5	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-166	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-167	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-168	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-169	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-170	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-171	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-172	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-173	С	Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-174	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-175	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-176	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-177	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-178	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-179	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-180	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-181	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-182	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-183	С	Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-184	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-185	С	Dove	5	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-186	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-187	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-188	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-189	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-190	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-191	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-192	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-193	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-194	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-195	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-196	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-197	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-198	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-199	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-200	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-201	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-202	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-203	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-204	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-205	С	Sparrow	5	

Contaminate Source Category	Contaminant Source ID	CS ID Tag	Zone	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-206	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-207	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-208	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-209	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-210	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-211	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-212	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-213	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-214	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-215	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-216	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-217	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-218	С	Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-219	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-220	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-221	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-222	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-223	С	Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-224	С	Dove	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Class V Injection Well	D10	D10-1	A	High	1	Manna Baptist Church	3	
Class V Injection Well	D10	D10-2	A	High	2	Arabian Acres	3	
Lawns and gardens	R1	R1-1	A	Low	3	Located south of the well	3	Zone A contains 9 acres
Lawns and gardens	R1	R1-2	В	Low	4	Located northwest of the well	2	Zone B contains 29 acres
Septic systems (serves one or more single-family homes)	R2	R2-225	A	Very Low	5	Palmer-Wasilla Hwy	3	
Septic systems (serves one or more single-family homes)	R2	R2-226	A	Very Low	6	Summerwood	3	
Septic systems (serves one or more single-family homes)	R2	R2-227	A	Very Low	7	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-228	A	Very Low	8	Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-229	A	Very Low	9	Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-230	A	Very Low	10	Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-231	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-232	A	Very Low		Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-233	A	Very Low		Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-234	A	Very Low		Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-235	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-236	A	Very Low		Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-237	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-238	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-1	В	Very Low		Ortner	3	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-2	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-3	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-4	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-5	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-6	A	Very Low		Ortner	3	
Lawns and gardens	R1	R1-3	C	Low		Located northwest of the well	4	Zone C contains 146 acres
Lawns and gardens	R1	R1-4	C	Low		Located northwest of the well	4	Zone C contains 104 acres
Septic systems (serves one or more single-family homes)	R2	R2-7	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-8	В	Very Low		Ortner	3	
Septic systems (serves one or more single- family homes)	R2	R2-9	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-10	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-11	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-12	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-13	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-14	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-15	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-16	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-17	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-18	В	Very Low		Ortner	3	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-19	В	Very Low	<u> </u>	Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-20	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-21	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-22	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-23	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-24	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-25	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-26	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-27	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-28	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-29	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-30	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Highways and roads, dirt/gravel	X20	X20-1	A	Very Low		Summerwood	2	
Highways and roads, dirt/gravel	X20	X20-2	A	Very Low		Strand	2	
Highways and roads, dirt/gravel	X20	X20-3	A	Very Low		Palmer-Wasilla Hwy	2	
Highways and roads, dirt/gravel	X20	X20-4	A	Very Low		Cody	2	
Highways and roads, dirt/gravel	X20	X20-5	A	Very Low		Laurel	2	
Highways and roads, dirt/gravel	X20	X20-6	A	Very Low		Witez II	2	
Construction Trade Area	C9	C9-1	В	Very Low		RH Excavating	2	
Highways and roads, dirt/gravel	X20	X20-7	В	Very Low		Ortner	2	
Highways and roads, dirt/gravel	X20	X20-8	В	Very Low		Northstar	2	
Highways and roads, dirt/gravel	X20	X20-9	В	Very Low		Hassen Bey	2	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Highways and roads, dirt/gravel	X20	X20-10	В	Very Low		Colony	2	
Highways and roads, dirt/gravel	X20	X20-11	В,С	Very Low		49th State	2	
Highways and roads, dirt/gravel	X20	X20-12	В	Very Low		Caribou	2	
Highways and roads, dirt/gravel	X20	X20-13	В	Very Low		Colony Schools	2	
Highways and roads, dirt/gravel	X20	X20-14	В	Very Low		Dove	4	
Highways and roads, dirt/gravel	X20	X20-15	В	Very Low		Sparrow	4	
Highways and roads, dirt/gravel	X20	X20-16	В	Very Low		Seagull	4	
Highways and roads, dirt/gravel	X20	X20-17	В	Very Low		Puffin	4	
Highways and roads, dirt/gravel	X20	X20-18	В	Very Low		Tern	4	
Highways and roads, dirt/gravel	X20	X20-19	В	Very Low		Trunk	4	
Highways and roads, dirt/gravel	X20	X20-20	В	Very Low		Teakwood	4	
Highways and roads, dirt/gravel	X20	X20-21	В	Very Low		Forestwood	4	
Highways and roads, dirt/gravel	X20	X20-22	В	Very Low		Hazelwood	4	
Highways and roads, dirt/gravel	X20	X20-23	В	Very Low		Birch Forest	4	
Highways and roads, dirt/gravel	X20	X20-24	В	Very Low		Olivewood	4	
Highways and roads, dirt/gravel	X20	X20-25	В	Very Low		Oakwood	4	
Highways and roads, dirt/gravel	X20	X20-26	В	Very Low		Baywood	4	
Highways and roads, dirt/gravel	X20	X20-27	В	Very Low		Palmer-Fishhook	4	
Highways and roads, dirt/gravel	X20	X20-28	В	Very Low		Heaton	4	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-32	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-33	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-34	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-35	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-36	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-37	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-38	С	Very Low		Teakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-39	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-40	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-41	C	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-42	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-43	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-44	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-45	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-46	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-47	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-48	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-49	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-50	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-51	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-52	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-53	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-54	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-55	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-56	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-57	С	Very Low		Forestwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-58	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-59	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-60	C	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-61	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-62	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-63	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-64	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-65	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-66	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-67	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-68	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-69	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-70	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-71	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-72	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-73	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-74	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-75	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-76	С	Very Low		Olivewood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-77	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-78	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-79	C	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-80	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-81	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-82	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-83	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-84	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-85	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-86	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-87	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-88	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-89	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-90	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-91	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-92	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-93	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-94	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-95	С	Very Low		Oakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-96	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-97	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-98	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-99	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-100	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-101	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-102	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-103	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-104	C	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-105	C	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-106	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-107	C	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-108	C	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-109	C	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-110	C	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-111	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-112	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-113	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-114	С	Very Low		Seagull	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-115	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-116	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-117	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-118	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-119	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-120	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-121	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-122	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-123	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-124	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-125	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-126	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-127	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-128	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-129	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-130	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-131	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-132	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-133	С	Very Low		Seagull	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-134	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-135	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-136	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-137	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-138	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-139	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-140	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-141	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-142	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-143	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-144	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-145	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-146	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-147	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-148	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-149	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-150	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-151	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-152	С	Very Low		Tern	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-153	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-154	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-155	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-156	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-157	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-158	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-159	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-160	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-161	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-162	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-163	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-164	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-165	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-166	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-167	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-168	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-169	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-170	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-171	С	Very Low		Puffin	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-172	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-173	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-174	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-175	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-176	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-177	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-178	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-179	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-180	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-181	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-182	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-183	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-184	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-185	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-186	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-187	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-188	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-189	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-190	С	Very Low		Sparrow	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-191	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-192	C	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-193	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-194	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-195	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-196	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-197	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-198	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-199	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-200	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-201	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-202	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-203	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-204	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-205	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-206	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-207	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-208	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-209	С	Very Low		Sparrow	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-210	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-211	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-212	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-213	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-214	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-215	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-216	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-217	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-218	С	Very Low		Sparrow	5	
Septic systems (serves one or more single- family homes)	R2	R2-219	С	Very Low		Dove	5	
Septic systems (serves one or more single- family homes)	R2	R2-220	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-221	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-222	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-223	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-224	С	Very Low		Dove	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Class V Injection Well	D10	D10-1	A	High	1	Manna Baptist Church	3	
Class V Injection Well	D10	D10-2	A	High	2	Arabian Acres	3	
Lawns and gardens	R1	R1-1	A	Low	3	Located south of the well	3	Zone A contains 9 acres
Lawns and gardens	R1	R1-2	В	Low	4	well	2	Zone B contains 29 acres
Septic systems (serves one or more single-family homes)	R2	R2-225	A	Very Low	5	Palmer-Wasilla Hwy	3	
Septic systems (serves one or more single-family homes)	R2	R2-226	A	Very Low	6	Summerwood	3	
Septic systems (serves one or more single-family homes)	R2	R2-227	A	Very Low	7	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-228	A	Very Low	8	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-229	A	Very Low	9	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-230	A	Very Low	10	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-231	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-232	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-233	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-234	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-235	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-236	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-237	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-238	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-1	В	Very Low		Ortner	3	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-2	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-3	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-4	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-5	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-6	A	Very Low		Ortner	3	
Lawns and gardens	R1	R1-3	С	Low		Located northwest of the well	4	Zone C contains 146 acres
Lawns and gardens	R1	R1-4	С	Low		Located northwest of the well	4	Zone C contains 104 acres
Septic systems (serves one or more single-family homes)	R2	R2-7	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-8	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-9	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-10	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-11	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-12	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-13	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-14	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-15	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-16	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-17	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-18	В	Very Low		Ortner	3	

	Contaminant			Risk	Overall			
Contaminant Source Category	Source ID	CS ID Tag	Zone	Ranking for	Rank for	Location	Map	Comments
	Source 1D			Analysis	Analysis			
Septic systems (serves one or more single-family homes)	R2	R2-19	В	Very Low		Ortner	3	
Septic systems (serves one or more single-	112	162 17		very now		Orther		
family homes)	R2	R2-20	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-21	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-22	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-23	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-24	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-25	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-26	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-27	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-28	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-29	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-30	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Highways and roads, dirt/gravel	X20	X20-1	A	Very Low		Summerwood	2	
Highways and roads, dirt/gravel	X20	X20-2	A	Very Low		Strand	2	
Highways and roads, dirt/gravel	X20	X20-3	A	Very Low		Palmer-Wasilla Hwy	2	
Highways and roads, dirt/gravel	X20	X20-4	A	Very Low		Cody	2	
Highways and roads, dirt/gravel	X20	X20-5	Α	Very Low		Laurel	2	
Highways and roads, dirt/gravel	X20	X20-6	A	Very Low		Witez II	2	
Construction Trade Area	С9	C9-1	В	Very Low		RH Excavating	2	
Highways and roads, dirt/gravel	X20	X20-7	В	Very Low		Ortner	2	
Highways and roads, dirt/gravel	X20	X20-8	В	Very Low		Northstar	2	
Highways and roads, dirt/gravel	X20	X20-9	В	Very Low		Hassen Bey	2	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Highways and roads, dirt/gravel	X20	X20-10	В	Very Low		Colony	2	
Highways and roads, dirt/gravel	X20	X20-11	B,C	Very Low		49th State	2	
Highways and roads, dirt/gravel	X20	X20-12	В	Very Low		Caribou	2	
Highways and roads, dirt/gravel	X20	X20-13	В	Very Low		Colony Schools	2	
Highways and roads, dirt/gravel	X20	X20-14	В	Very Low		Dove	4	
Highways and roads, dirt/gravel	X20	X20-15	В	Very Low		Sparrow	4	
Highways and roads, dirt/gravel	X20	X20-16	В	Very Low		Seagull	4	
Highways and roads, dirt/gravel	X20	X20-17	В	Very Low		Puffin	4	
Highways and roads, dirt/gravel	X20	X20-18	В	Very Low		Tern	4	
Highways and roads, dirt/gravel	X20	X20-19	В	Very Low		Trunk	4	
Highways and roads, dirt/gravel	X20	X20-20	В	Very Low		Teakwood	4	
Highways and roads, dirt/gravel	X20	X20-21	В	Very Low		Forestwood	4	
Highways and roads, dirt/gravel	X20	X20-22	В	Very Low		Hazelwood	4	
Highways and roads, dirt/gravel	X20	X20-23	В	Very Low		Birch Forest	4	
Highways and roads, dirt/gravel	X20	X20-24	В	Very Low		Olivewood	4	
Highways and roads, dirt/gravel	X20	X20-25	В	Very Low		Oakwood	4	
Highways and roads, dirt/gravel	X20	X20-26	В	Very Low		Baywood	4	
Highways and roads, dirt/gravel	X20	X20-27	В	Very Low		Palmer-Fishhook	4	
Highways and roads, dirt/gravel	X20	X20-28	В	Very Low		Heaton	4	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-32	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-33	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-34	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-35	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-36	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-37	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-38	С	Very Low		Teakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-39	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-40	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-41	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-42	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-43	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-44	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-45	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-46	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-47	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-48	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-49	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-50	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-51	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-52	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-53	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-54	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-55	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-56	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-57	С	Very Low		Forestwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-58	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-59	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-60	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-61	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-62	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-63	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-64	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-65	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-66	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-67	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-68	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-69	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-70	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-71	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-72	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-73	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-74	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-75	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-76	С	Very Low		Olivewood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-77	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-78	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-79	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-80	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-81	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-82	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-83	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-84	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-85	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-86	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-87	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-88	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-89	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-90	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-91	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-92	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-93	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-94	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-95	С	Very Low		Oakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-96	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-97	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-98	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-99	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-100	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-101	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-102	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-103	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-104	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-105	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-106	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-107	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-108	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-109	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-110	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-111	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-112	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-113	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-114	С	Very Low		Seagull	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-115	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-116	C	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-117	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-118	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-119	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-120	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-121	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-122	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-123	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-124	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-125	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-126	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-127	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-128	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-129	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-130	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-131	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-132	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-133	С	Very Low		Seagull	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-134	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-135	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-136	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-137	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-138	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-139	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-140	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-141	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-142	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-143	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-144	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-145	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-146	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-147	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-148	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-149	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-150	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-151	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-152	С	Very Low		Tern	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-153	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-154	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-155	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-156	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-157	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-158	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-159	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-160	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-161	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-162	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-163	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-164	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-165	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-166	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-167	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-168	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-169	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-170	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-171	С	Very Low		Puffin	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-172	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-173	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-174	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-175	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-176	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-177	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-178	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-179	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-180	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-181	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-182	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-183	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-184	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-185	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-186	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-187	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-188	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-189	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-190	С	Very Low		Sparrow	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-191	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-192	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-193	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-194	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-195	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-196	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-197	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-198	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-199	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-200	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-201	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-202	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-203	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-204	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-205	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-206	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-207	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-208	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-209	С	Very Low		Sparrow	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-210	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-211	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-212	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-213	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-214	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-215	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-216	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-217	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-218	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-219	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-220	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-221	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-222	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-223	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-224	С	Very Low		Dove	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Class V Injection Well	D10	D10-1	A	High	1	Manna Baptist Church	3	
Class V Injection Well	D10	D10-2	A	High	2	Arabian Acres	3	
Construction Trade Area	С9	C9-1	В	Low	3	RH Excavating	2	
Lawns and gardens	R1	R1-1	A	Low	4	Located south of the well	3	Zone A contains 9 acres
Lawns and gardens	R1	R1-2	В	Low	5	Located northwest of the well	2	Zone B contains 29 acres
Septic systems (serves one or more single-family homes)	R2	R2-225	A	Very Low	6	Palmer-Wasilla Hwy	3	
Septic systems (serves one or more single- family homes)	R2	R2-226	A	Very Low	7	Summerwood	3	
Septic systems (serves one or more single-family homes)	R2	R2-227	A	Very Low	8	Strand	3	
Septic systems (serves one or more single- family homes)	R2	R2-228	A	Very Low	9	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-229	A	Very Low	10	Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-230	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-231	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-232	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-233	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-234	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-235	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-236	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-237	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-238	A	Very Low		Strand	3	
Septic systems (serves one or more single-family homes)	R2	R2-1	В	Very Low		Ortner	3	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-2	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-3	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-4	A	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-5	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-6	A	Very Low		Ortner	3	
Lawns and gardens	R1	R1-3	С	Low		Located northwest of the well	4	Zone C contains 146 acres
Lawns and gardens	R1	R1-4	С	Low		Located northwest of the well	4	Zone C contains 104 acres
Septic systems (serves one or more single-family homes)	R2	R2-7	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-8	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-9	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-10	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-11	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-12	В	Very Low		Ortner	3	
Septic systems (serves one or more single- family homes)	R2	R2-13	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-14	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-15	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-16	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-17	В	Very Low		Ortner	3	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-18	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-19	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-20	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-21	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-22	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-23	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-24	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-25	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-26	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-27	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-28	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-29	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-30	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Highways and roads, dirt/gravel	X20	X20-1	A	Very Low		Summerwood	2	
Highways and roads, dirt/gravel	X20	X20-2	Α	Very Low		Strand	2	
Highways and roads, dirt/gravel	X20	X20-3	Α	Very Low		Palmer-Wasilla Hwy	2	
Highways and roads, dirt/gravel	X20	X20-4	A	Very Low		Cody	2	
Highways and roads, dirt/gravel	X20	X20-5	Α	Very Low		Laurel	2	
Highways and roads, dirt/gravel	X20	X20-6	A	Very Low		Witez II	2	
Highways and roads, dirt/gravel	X20	X20-7	В	Very Low		Ortner	2	
Highways and roads, dirt/gravel	X20	X20-8	В	Very Low		Northstar	2	

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Highways and roads, dirt/gravel	X20	X20-9	В	Very Low		Hassen Bey	2	
Highways and roads, dirt/gravel	X20	X20-10	В	Very Low		Colony	2	
Highways and roads, dirt/gravel	X20	X20-11	В,С	Very Low		49th State	2	
Highways and roads, dirt/gravel	X20	X20-12	В	Very Low		Caribou	2	
Highways and roads, dirt/gravel	X20	X20-13	В	Very Low		Colony Schools	2	
Highways and roads, dirt/gravel	X20	X20-14	В	Very Low		Dove	4	
Highways and roads, dirt/gravel	X20	X20-15	В	Very Low		Sparrow	4	
Highways and roads, dirt/gravel	X20	X20-16	В	Very Low		Seagull	4	
Highways and roads, dirt/gravel	X20	X20-17	В	Very Low		Puffin	4	
Highways and roads, dirt/gravel	X20	X20-18	В	Very Low		Tern	4	
Highways and roads, dirt/gravel	X20	X20-19	В	Very Low		Trunk	4	
Highways and roads, dirt/gravel	X20	X20-20	В	Very Low		Teakwood	4	
Highways and roads, dirt/gravel	X20	X20-21	В	Very Low		Forestwood	4	
Highways and roads, dirt/gravel	X20	X20-22	В	Very Low		Hazelwood	4	
Highways and roads, dirt/gravel	X20	X20-23	В	Very Low		Birch Forest	4	
Highways and roads, dirt/gravel	X20	X20-24	В	Very Low		Olivewood	4	
Highways and roads, dirt/gravel	X20	X20-25	В	Very Low		Oakwood	4	
Highways and roads, dirt/gravel	X20	X20-26	В	Very Low		Baywood	4	
Highways and roads, dirt/gravel	X20	X20-27	В	Very Low		Palmer-Fishhook	4	
Highways and roads, dirt/gravel	X20	X20-28	В	Very Low		Heaton	4	
Septic systems (serves one or more single-family homes)	R2	R2-31	В	Very Low		Ortner	3	
Septic systems (serves one or more single-family homes)	R2	R2-32	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-33	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-34	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-35	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-36	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-37	С	Very Low		Teakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-38	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-39	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-40	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-41	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-42	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-43	С	Very Low		Teakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-44	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-45	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-46	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-47	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-48	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-49	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-50	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-51	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-52	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-53	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-54	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-55	С	Very Low		Forestwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-56	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-57	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-58	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-59	С	Very Low		Forestwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-60	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-61	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-62	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-63	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-64	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-65	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-66	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-67	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-68	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-69	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-70	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-71	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-72	С	Very Low		Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-73	С	Very Low		Hazelwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-74	С	Very Low	•	Hazelwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-75	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-76	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-77	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-78	С	Very Low		Olivewood	6	
Septic systems (serves one or more single-family homes)	R2	R2-79	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-80	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-81	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-82	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-83	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-84	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-85	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-86	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-87	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-88	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-89	С	Very Low		Birch Forest	6	
Septic systems (serves one or more single-family homes)	R2	R2-90	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-91	С	Very Low		Oakwood	6	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-92	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-93	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-94	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-95	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-96	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-97	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-98	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-99	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-100	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-101	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-102	С	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-103	C	Very Low		Baywood	6	
Septic systems (serves one or more single-family homes)	R2	R2-104	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-105	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-106	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-107	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-108	С	Very Low		Oakwood	6	
Septic systems (serves one or more single-family homes)	R2	R2-109	С	Very Low		Tern	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-110	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-111	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-112	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-113	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-114	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-115	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-116	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-117	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-118	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-119	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-120	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-121	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-122	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-123	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-124	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-125	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-126	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-127	С	Very Low		Seagull	5	

	Contaminant			Risk	Overall			~
Contaminant Source Category	Source ID	CS ID Tag	Zone	Ranking for Analysis	Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-128	С	Very Low	•/	Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-129	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-130	С	Very Low		Caribou	5	
Septic systems (serves one or more single-family homes)	R2	R2-131	С	Very Low		Seagull	5	
Septic systems (serves one or more single- family homes)	R2	R2-132	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-133	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-134	С	Very Low		Seagull	5	
Septic systems (serves one or more single- family homes)	R2	R2-135	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-136	С	Very Low		Seagull	5	
Septic systems (serves one or more single- family homes)	R2	R2-137	С	Very Low		Seagull	5	
Septic systems (serves one or more single- family homes)	R2	R2-138	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-139	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-140	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-141	С	Very Low		Seagull	5	
Septic systems (serves one or more single-family homes)	R2	R2-142	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-143	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-144	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-145	С	Very Low		Tern	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-146	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-147	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-148	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-149	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-150	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-151	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-152	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-153	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-154	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-155	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-156	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-157	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-158	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-159	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-160	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-161	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-162	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-163	С	Very Low		Puffin	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-164	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-165	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-166	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-167	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-168	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-169	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-170	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-171	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-172	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-173	С	Very Low		Puffin	5	
Septic systems (serves one or more single-family homes)	R2	R2-174	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-175	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-176	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-177	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-178	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-179	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-180	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-181	С	Very Low		Tern	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-182	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-183	С	Very Low		Tern	5	
Septic systems (serves one or more single-family homes)	R2	R2-184	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-185	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-186	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-187	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-188	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-189	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-190	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-191	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-192	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-193	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-194	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-195	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-196	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-197	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-198	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-199	С	Very Low		Sparrow	5	

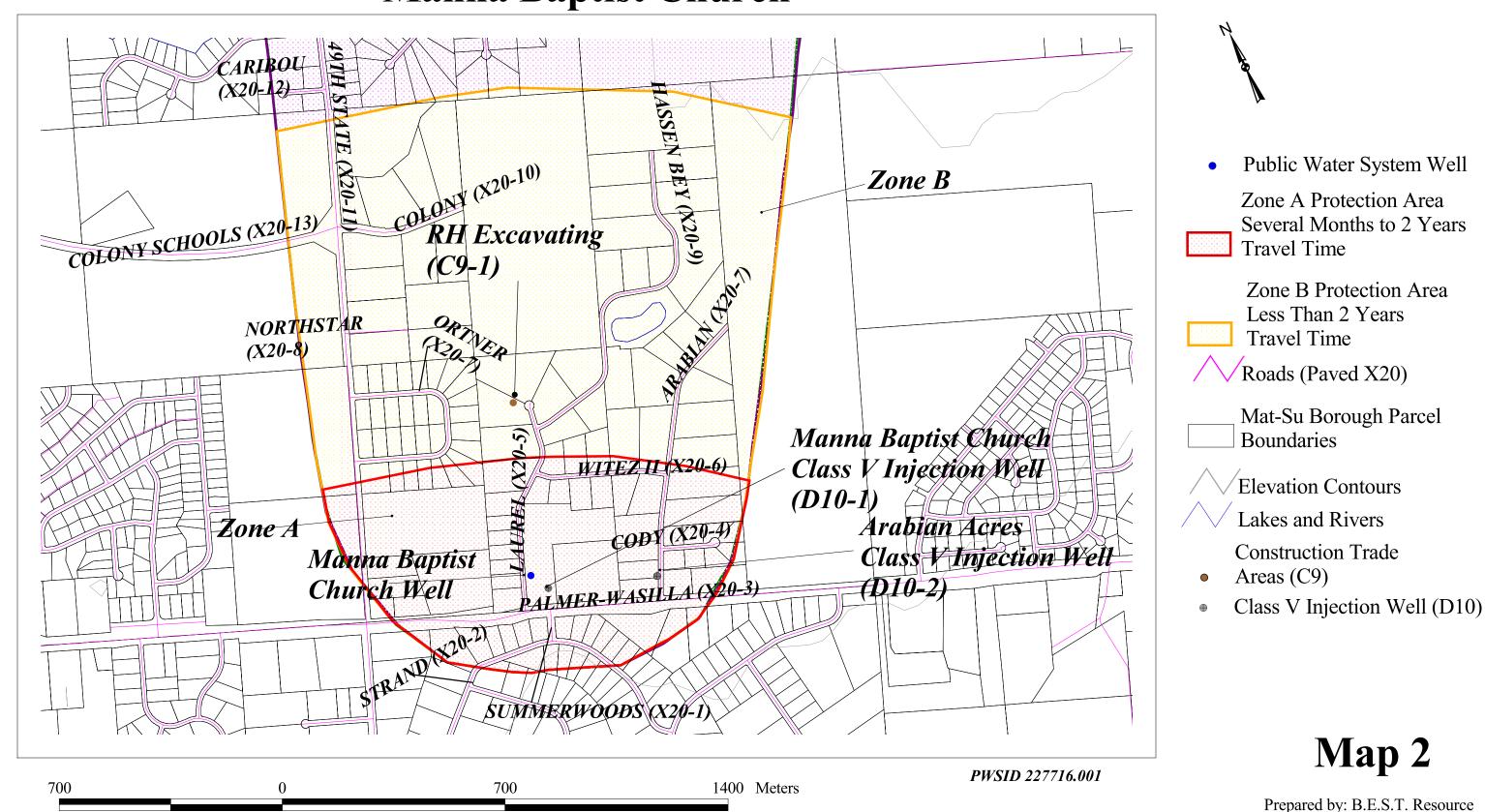
Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Мар	Comments
Septic systems (serves one or more single-family homes)	R2	R2-200	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-201	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-202	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-203	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-204	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-205	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-206	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-207	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-208	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-209	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-210	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-211	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-212	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-213	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-214	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-215	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-216	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-217	С	Very Low		Sparrow	5	

Contaminant Source Category	Contaminant Source ID	CS ID Tag	Zone	Risk Ranking for Analysis	Overall Rank for Analysis	Location	Map	Comments
Septic systems (serves one or more single-family homes)	R2	R2-218	С	Very Low		Sparrow	5	
Septic systems (serves one or more single-family homes)	R2	R2-219	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-220	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-221	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-222	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-223	С	Very Low		Dove	5	
Septic systems (serves one or more single-family homes)	R2	R2-224	С	Very Low		Dove	5	

APPENDIX C

Manna Baptist Church Drinking Water Protection Area and Potential & Existing Contaminant Sources

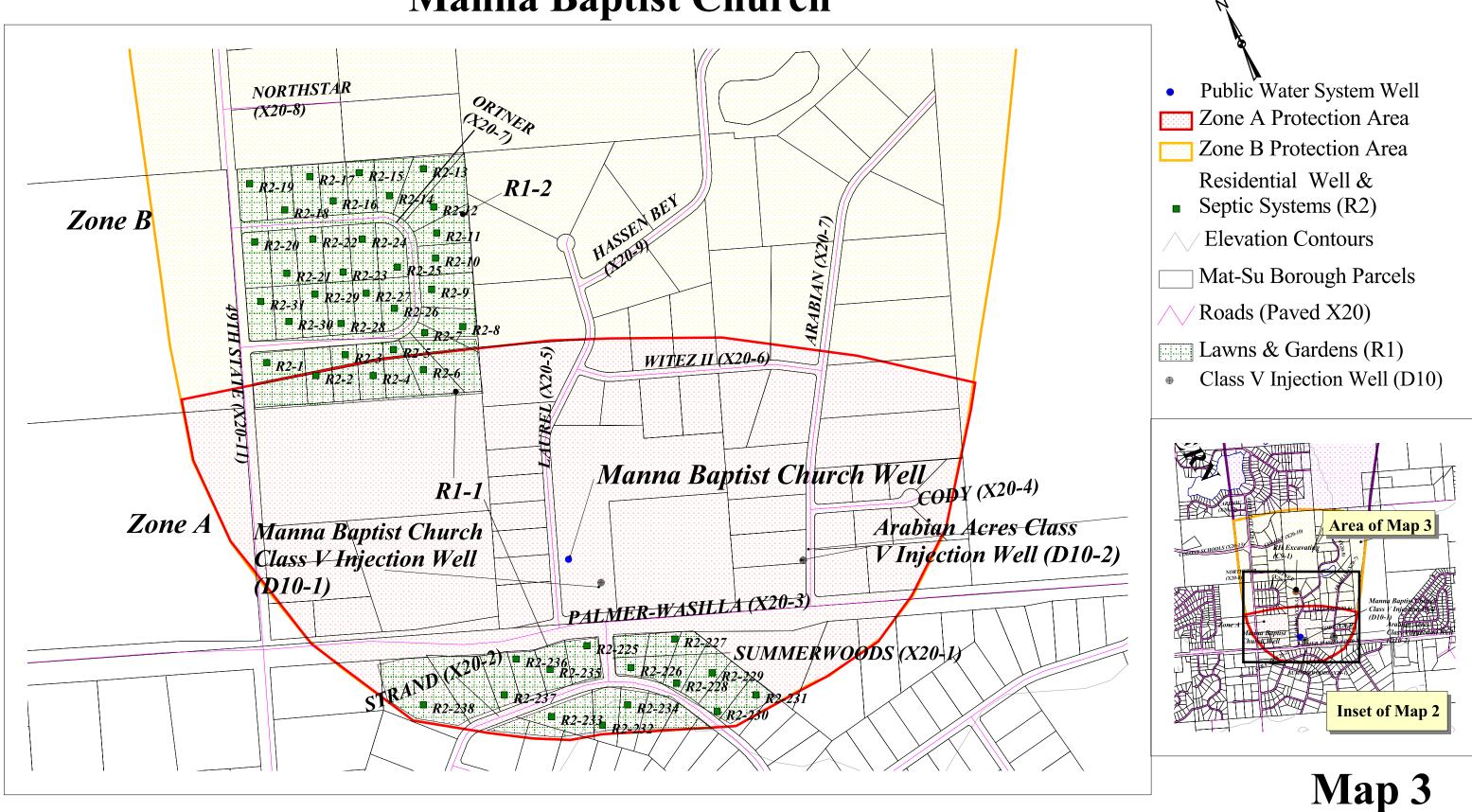
Drinking Water Protection Areas Potential & Existing Sources of Contamination for Manna Baptist Church



Drinking Water Protection Area and Potential & Existing Sources of Contamination for Manna Baptist Church

500

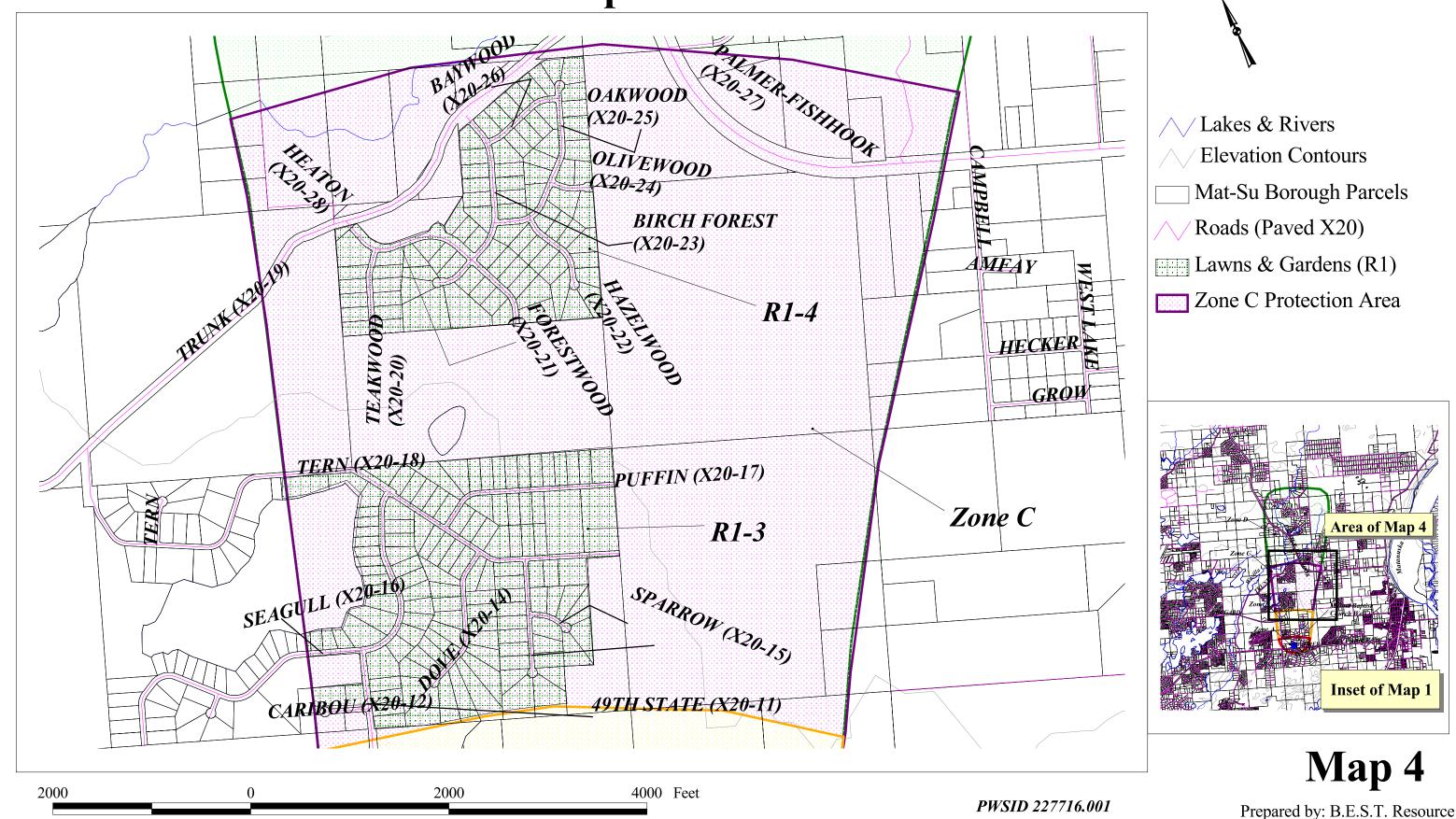
1000 Feet



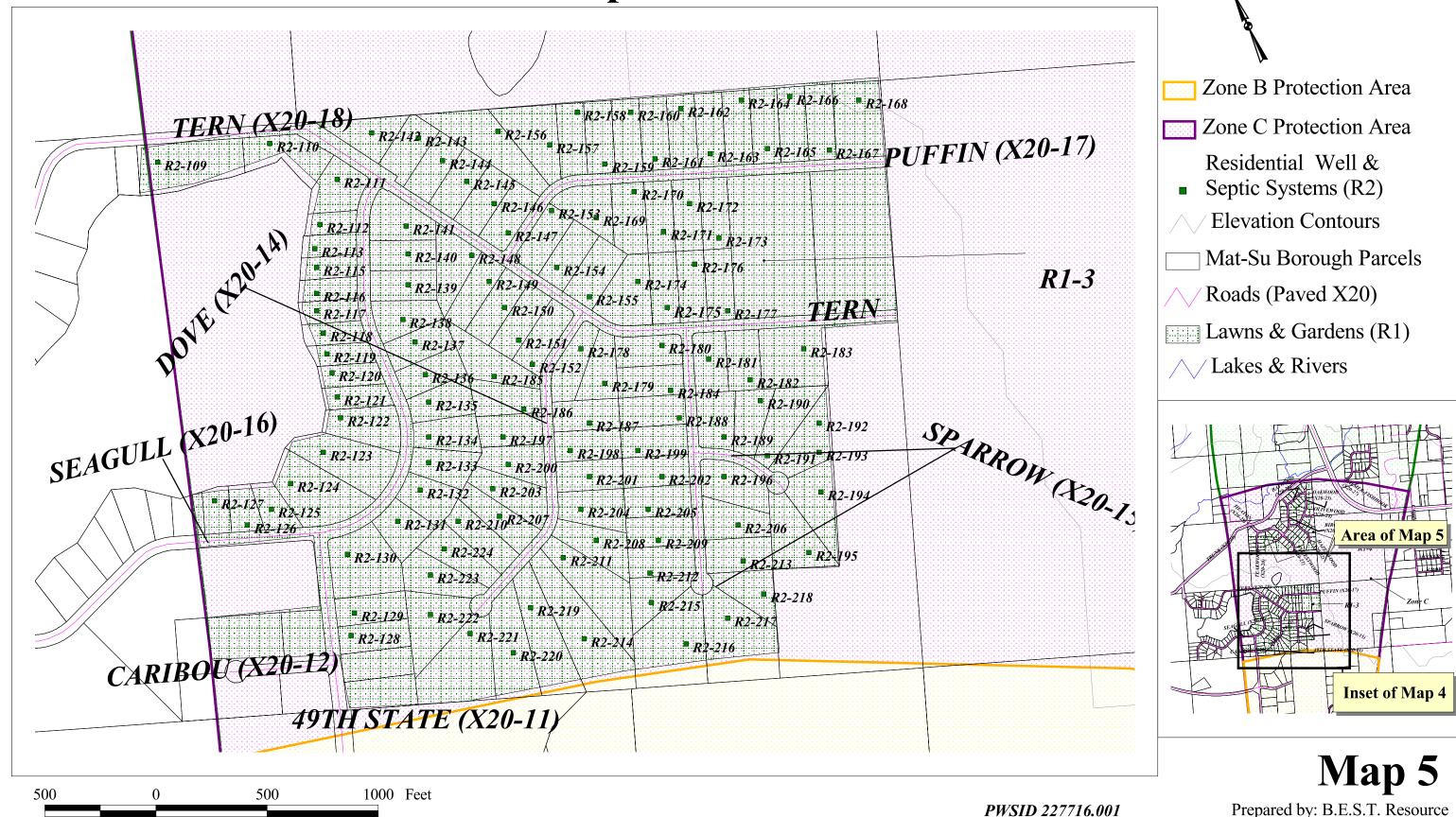
Prepared by: B.E.S.T. Resource

PWSID 227716.001

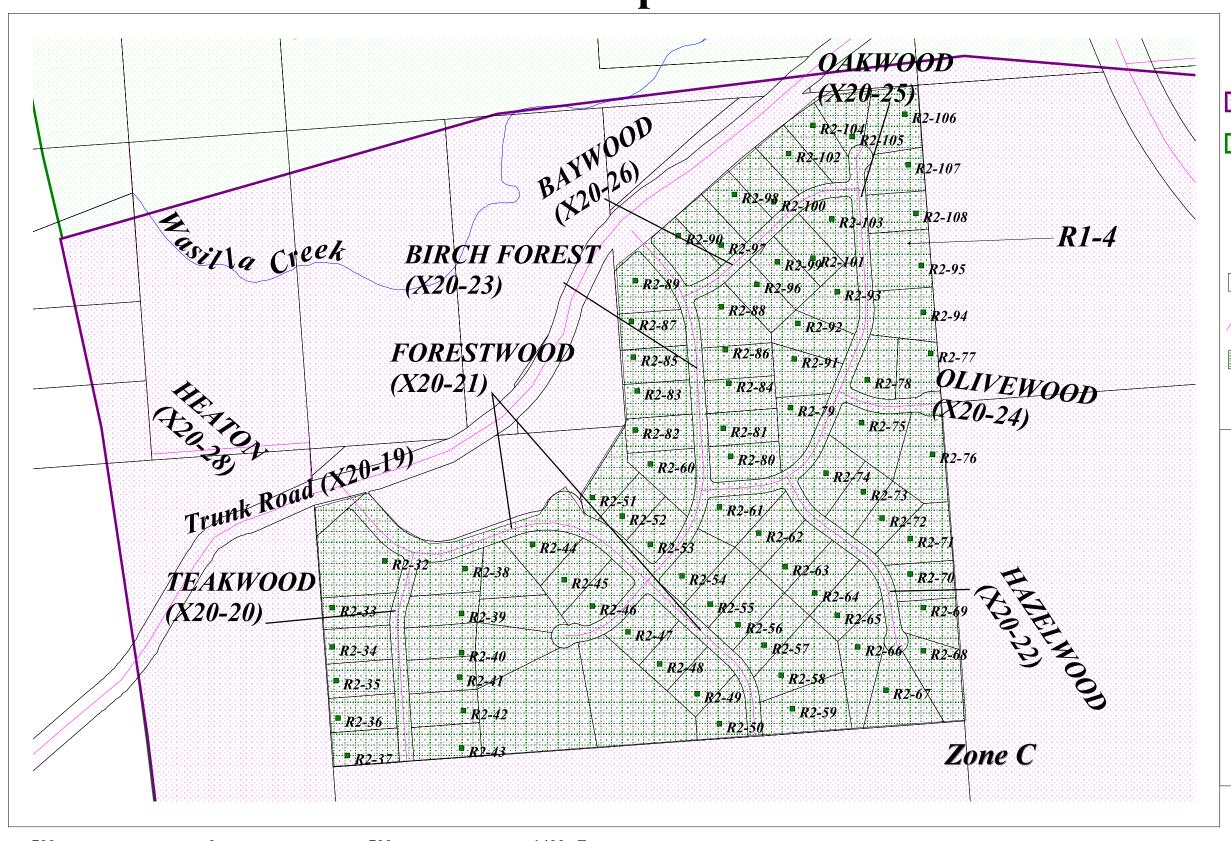
Drinking Water Protection Area and Potential & Existing Sources of Contamination for Manna Baptist Church



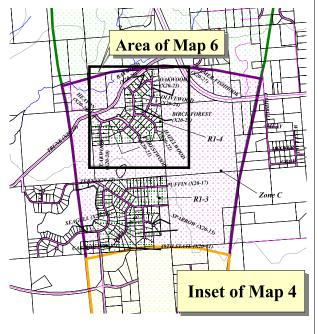
Drinking Water Protection Area and Potential & Existing Sources of Contamination for Manna Baptist Church



Drinking Water Protection Area and Potential & Existing Sources of Contamination for Manna Baptist Church



- Zone C Protection Area
- Zone D Protection Area
- Residential Well & Septic Systems (R2)
- \ / Elevation Contours
 - Lievation Contours
- Mat-Su Borough Parcels
- Roads (Paved X20)
- Lawns & Gardens (R1)
- // Lakes & Rivers



Map 6
Prepared by: B.E.S.T. Resource

APPENDIX D

Vulnerability Analysis for Manna Baptist Church Public Drinking Water Source

Chart 1. Susceptibility of the wellhead – Manna Baptist Church

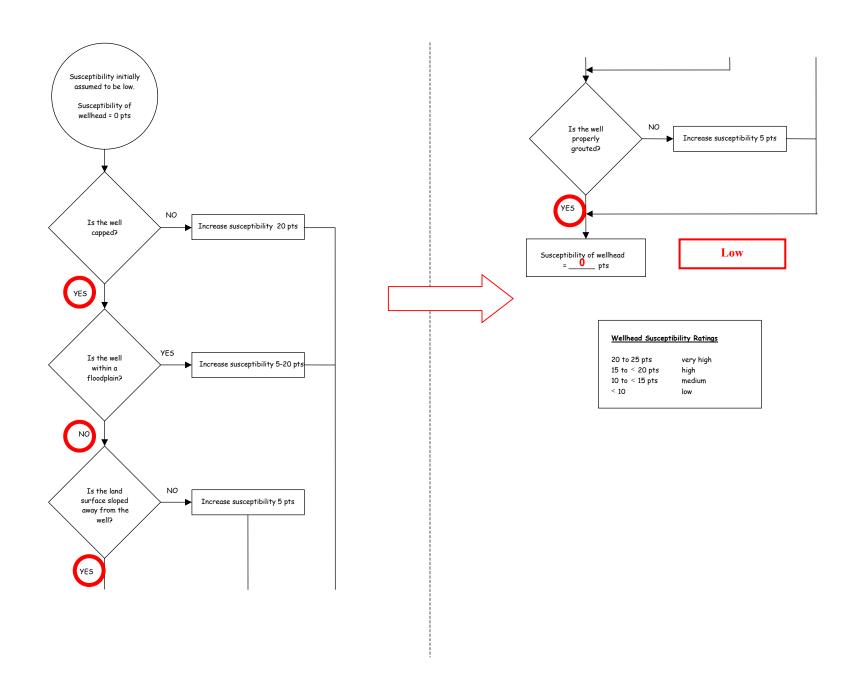


Chart 2. Susceptibility of the aquifer - Manna Baptist Church

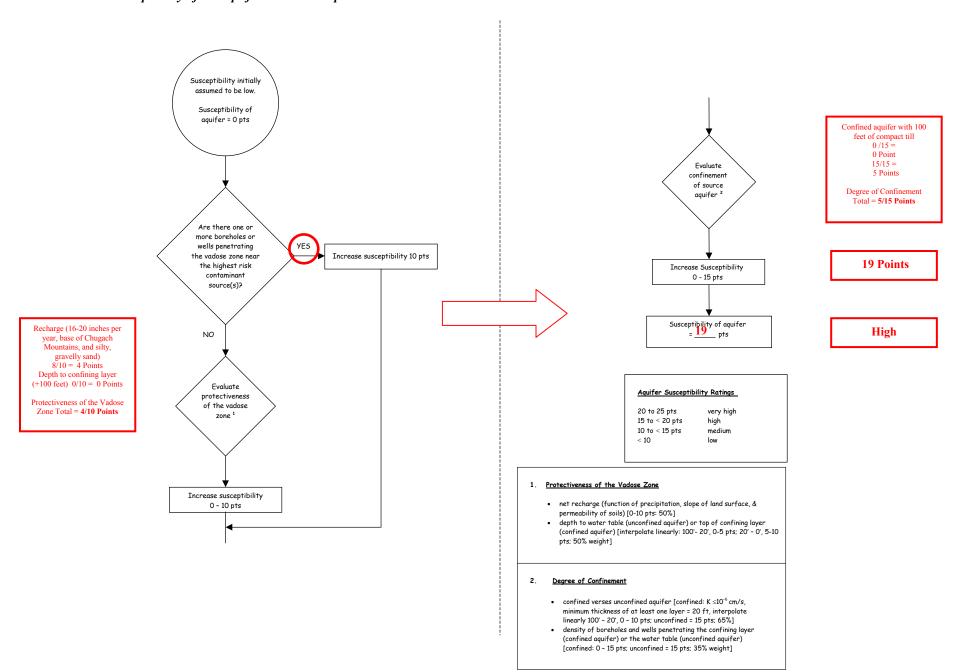


Chart 3. Contaminant risks for Manna Baptist Church – Bacteria & Viruses

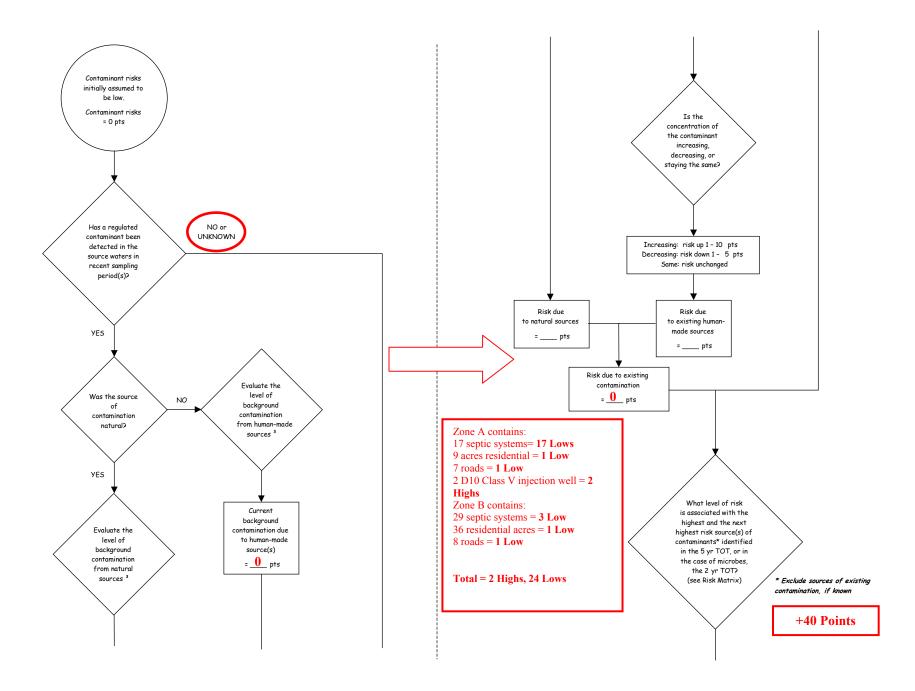


Chart 3. Contaminant risks for Manna Baptist Church – Bacteria & Viruses (Continued)

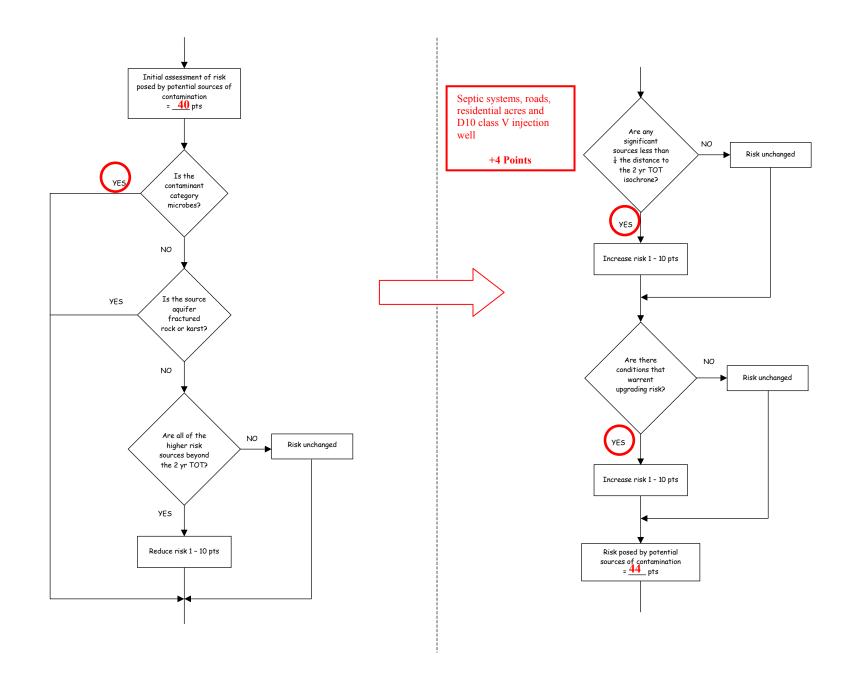
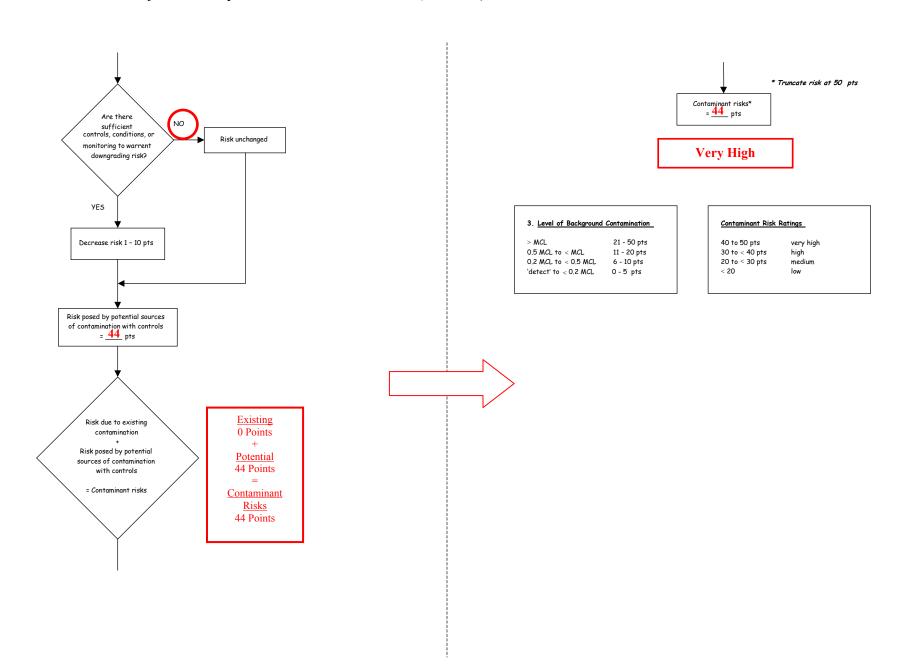


Chart 3. Contaminant risks for Manna Baptist Church – Bacteria & Viruses (Continued)



Level of Risk Associated with the Highest Risk Sources

46 residential septic systems, 15 roads, 45 acres of residential area and 2 D10 class V injection well	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

Next Highest Risk Sources(s)

Chart 4. Vulnerability analysis for Manna Baptist Church–Bacteria & Viruses

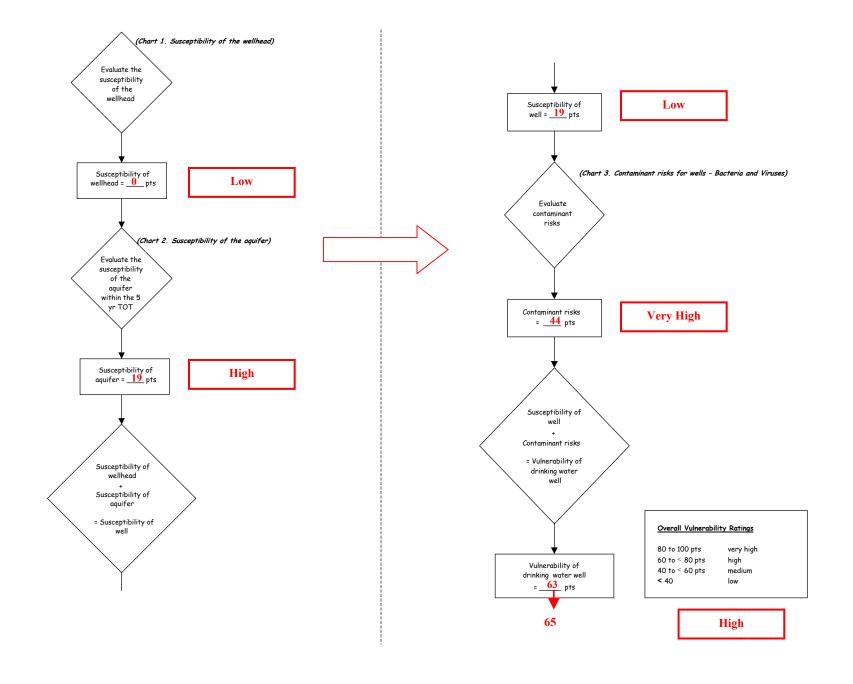


Chart 5. Contaminant risks for Manna Baptist Church-Nitrates and Nitrites

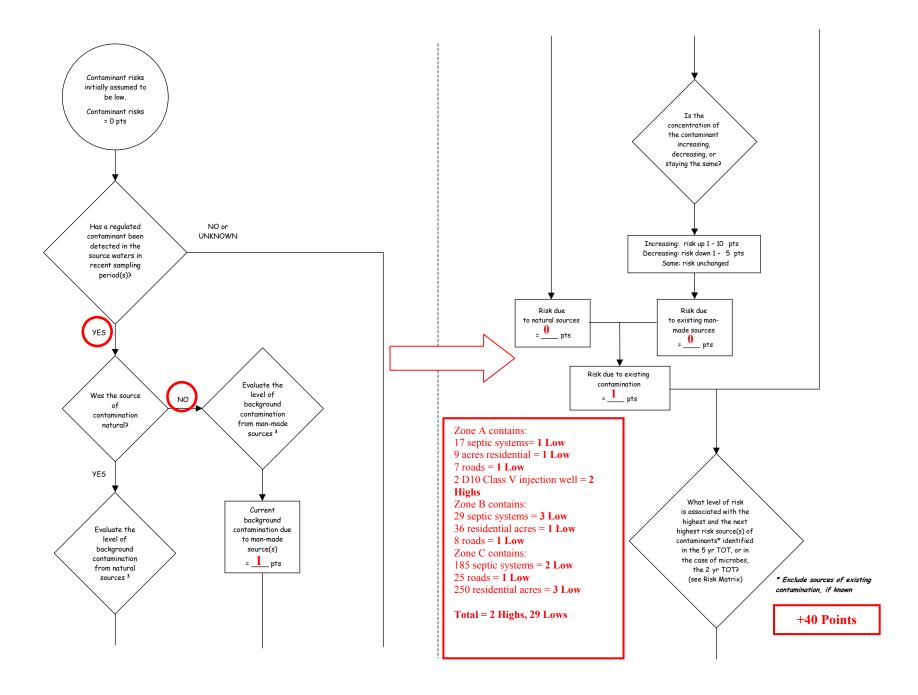


Chart 5. Contaminant risks for Manna Baptist Church-Nitrates and Nitrites (Continued)

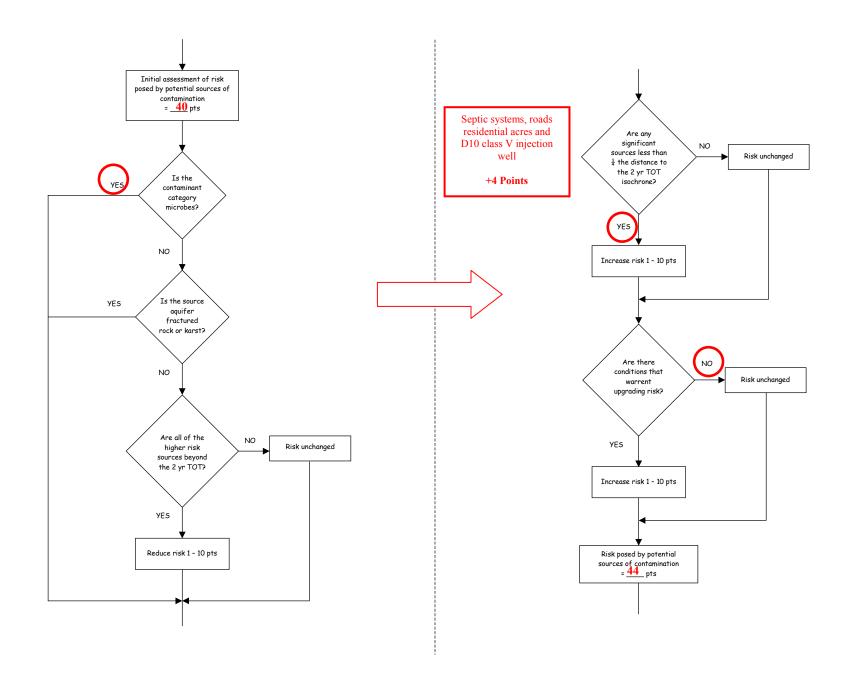
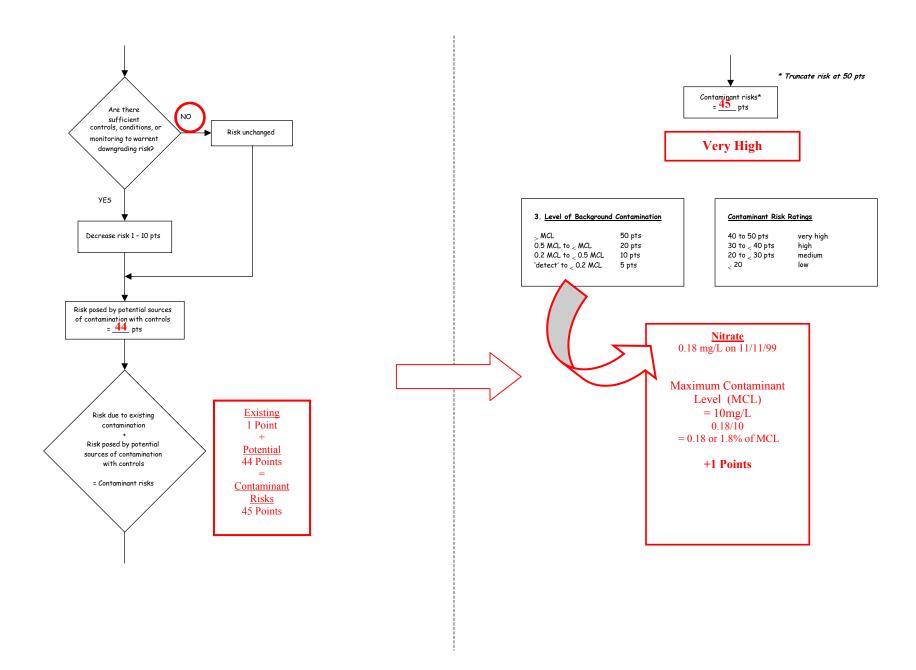


Chart 5. Contaminant risks for Manna Baptist Church-Nitrates and Nitrites (Continued)



Level of Risk Associated with the Highest Risk Sources

h				
231 residential septic systems, 40 roads, 295 acres of residential area, 2 class V injection well and 1 construction area	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

Next Highest Risk Sources(s)

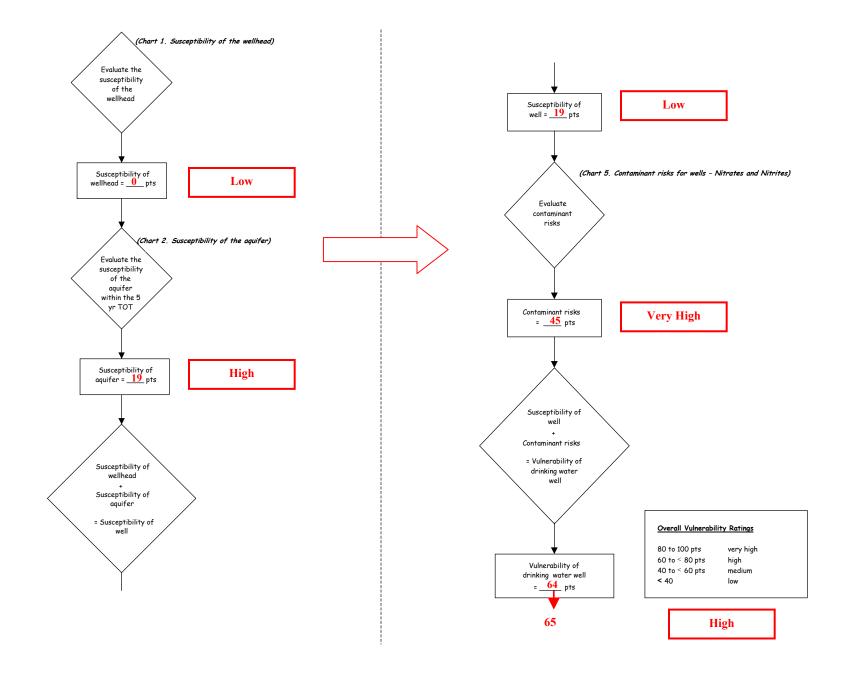


Chart 7. Contaminant risks for Manna Baptist Church - Volatile Organic Chemicals

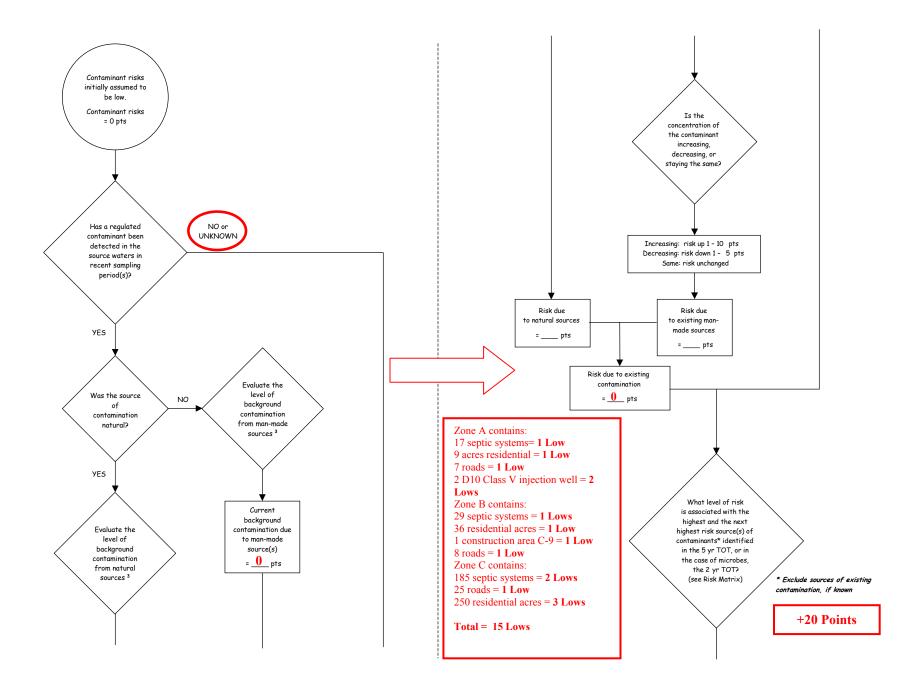


Chart 7. Contaminant risks for Manna Baptist Church - Volatile Organic Chemicals (Continued)

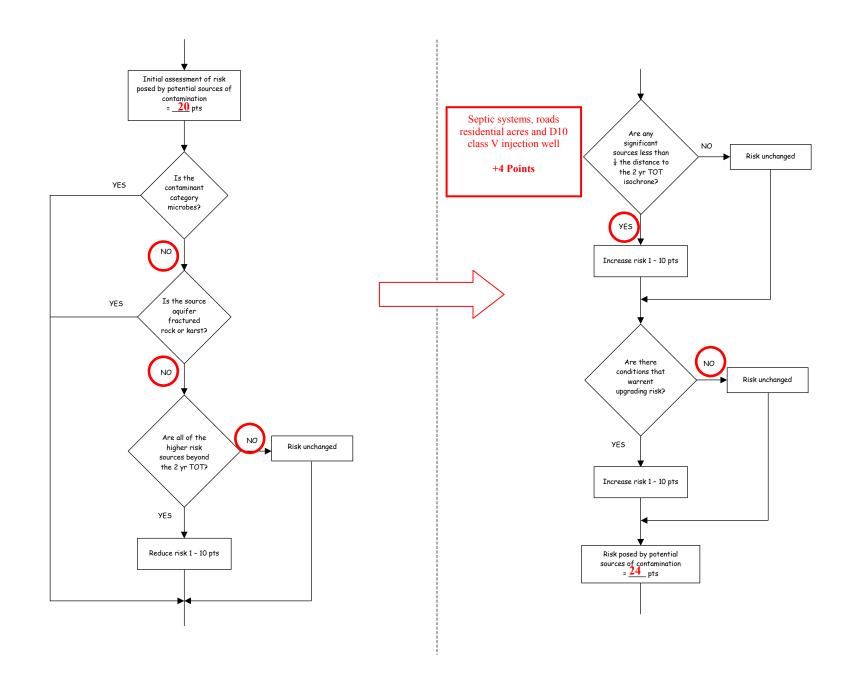


Chart 7. Contaminant risks for Manna Baptist Church – Volatile Organic Chemicals (Continued)

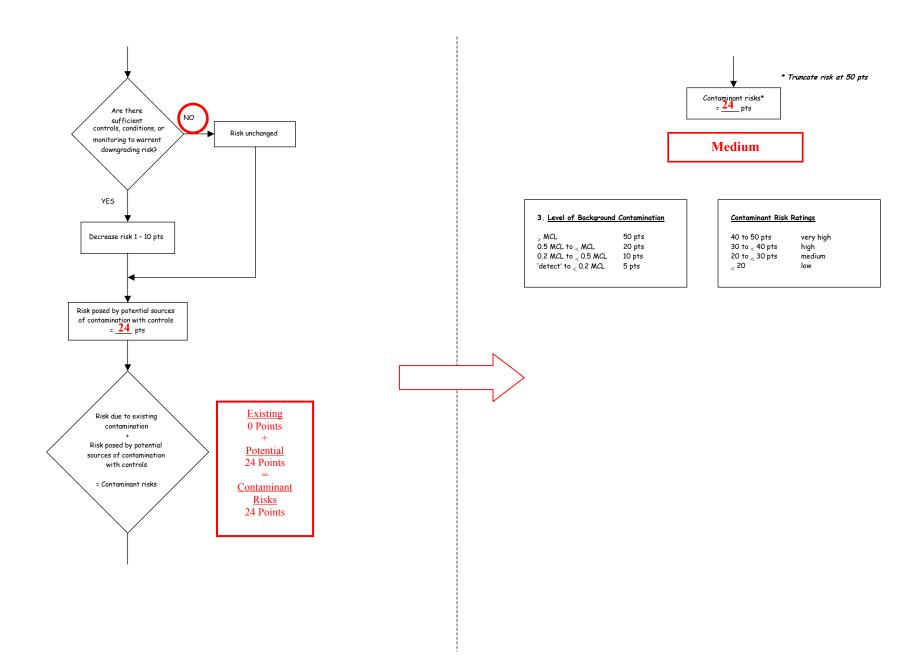


Table 3. Risk Matrix for Contaminant Sources for Manna Baptist Church – Volatile Organic Chemicals

Level of Risk Associated with the Highest Risk Sources

231 residential septic systems, 40 roads, 295 acres of residential area, 2 class V injection well and 1 construction area	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

Chart 8. Vulnerability analysis for Manna Baptist Church-Volatile Organic Chemicals

