

Preliminary Engineering Report

FOR: Water System Improvements



April 2008

Prepared for:

Town of Melstone, Montana

Prepared by:



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1.0 EXECUTIVE SUMMARY

1.1 Introduction and Background

The Town of Melstone has been working towards improving their water system for many years. Major planning began as early as July 1983 when Sanderson/Stewart/Gaston provided a water system study for Melstone. The report concluded that the Town should construct a package-type water treatment plant, which was constructed in 1986 against recommendations of the Montana Department of Environmental Quality (DEQ).

In 1988 the Musselshell River ceased to flow for approximately 1 month. During that time, the Town was able to pump water out of the river from water that had pooled in the deep area by the intake. Groundwater allowed the pooled water to slowly recharge. In the fall of 1988, Morrison-Maierle prepared two reports regarding alternative water sources for the Town and conducted two thorough hydrogeological investigations. No improvements were completed at the time as it was an extremely wet fall.

In 2001, the river again stopped flowing. Although it took a full night to recharge the pooled water in the riverbed, the Town was able to continue receiving water from the seepage. However, in 2002, the river completely dried up in late July and the pooled areas stopped recharging. For two months the Town survived using water from a hastily constructed raw water reservoir (there were originally two, but the dividing wall deteriorated). By the time water again flowed in the river, the pond was down to its last few inches, all the water from the swimming pool had been hauled to the raw water storage pond, and the sedimentation pond was at about half its normal operating level.

In 2002, a preliminary engineering report (PER) was prepared by Montana Engineering and Administration, now Great West Engineering. The PER was developed to determine the best long-term solution for a water supply source and treatment system for Melstone. The report came to the same conclusion reached in the 1988 Morrison-Maierle report, which was to develop a well in the Fox Hills Aquifer approximately 5 miles from Town.

The Town drilled a well in the Fox Hills aquifer in 2003 approximately 5 miles south of Town. However, the well had a significantly lower yield than originally anticipated (15-18 gpm versus an anticipated 75 gpm). In 2005, a second well (Well #2) was drilled in the Lance formation approximately 100 feet north of the existing well. The yield was only 5-8 gpm, and the well has high iron and relatively high manganese. Two additional test wells were drilled shortly thereafter. Well #3 was approximately ½ mile southwest of Well #1 and Well #4 was approximately 1 ½ miles northeast of Well #1. Unfortunately, no water was found in either well.

A last chance effort at an attempt for a groundwater source was made in December 2006 when the Town constructed a test well (Well #6T) approximately 10 miles west of Melstone (this was the second preferred alternative in the 2002 PER). The well was found to produce approximately 85 gpm and was determined to have adequate water quality for drinking without any treatment (outside of disinfection). The Town would like to consider developing two production wells in this location. However, before the water can be put to use, it will have to be piped nearly 12 miles to Town.

To re-evaluate the alternatives for the water system, the Town retained Great West Engineering, Inc. to complete this Preliminary Engineering Report (PER). The report included a detailed analysis of the existing water facilities and specifically identified deficiencies within the system. Considering all efforts completed to date, various alternatives were developed to correct the deficiencies. Alternatives considered viable were analyzed in detail and ranked using various weighted criteria such as life cycle cost, technical feasibility, and environmental impacts. With a preferred alternative selected, a funding strategy was developed. A brief summary of the findings is included in the following subsections.

1.2 Problem Definition

The major problems within the Town's water system include:

- Lack of sufficient water supply (river stopped flowing for over a month in last 4 of 7 years)
- Poor water quality: high hardness, high alkalinity, high total organic carbons, high TTHMs and HAA5s, high turbidity

- Aging, failing water treatment plant
- Violation of EPA's Filter Backwash Recycle Rule
- Violation of state Circular DEQ-1 requiring treatment plant to have full redundancy
- Failed automated controls

1.3 Alternatives Considered

Because the treatment of groundwater versus surface water is so different, the alternatives were developed for water supply and treatment combined. The alternative screening process considered numerous alternatives for the water supply and treatment deficiencies identified within the water system. However, after an initial evaluation, it was determined that some of the alternatives were not viable for the Town of Melstone and were eliminated from further review. Alternatives that were considered in detail included:

- Alternative 1: Expand Raw Water Storage and Provide Sedimentation and Microfiltration
- Alternative 2: New Fox Hills Wells and 12-Mile Pipeline
 - Route "a" --- Well to Queens Point Road to Highway 12 to Existing Water Treatment Plant
 - Route "b" --- Well to Queens Point Road to Harvey Road to Highway 12 to Existing Water Treatment Plant
 - Route "c" --- Well to Queens Point Road to Harvey Road to Poole Road to Existing 4" Pipeline

It should be noted that Alternative 2 also include 3 potential wellsites. A map of the wellsites along with the various pipeline routes was included in Figure 7.2.

1.4 Preferred Alternative

Each of the alternatives presented above were analyzed in detail. A decision matrix was developed to compare alternatives and select a preferred alternative. The decision matrix included environmental impacts, technical feasibility, 20 year life cycle costs, public health and safety, operation and maintenance, and public opinion. Based upon the results of the decision matrix, the preferred alternative was determined to be Alternative 2b: Fox Hills Wells with Pipeline Route b.

Alternative 2b includes the construction of two production wells in the Fox Hills aquifer approximately 10 miles west of Melstone. The wells would be connected to the existing water treatment plant (clearwell) via an approximately 12-mile long pipeline along the route identified in Figure 7.2. As part of the improvements, a new wellhouse would be constructed to house the new chlorination facility and well controls. A new telemetry system would provide all controls for the system. In addition to the new wells, the existing Well #2 would be connected to the system and modifications would be made to the existing well control vault to provide an automatic gas monitor and ventilation system. Other improvements to the existing system would include installing some additional air release valves on the existing 5-mile well pipeline.

A map of the preferred alternative is provided in Figure 8.1.

It is also important to note that the Town has been working towards a land agreement with the land owner of Wellsite #6 for over a year. Due to some concerns of reaching an amenable agreement, two alternate wellsite locations have been identified. Wellsite #7 is adjacent to Wellsite #6, thus, proposed improvements would be nearly identical. If Wellsite #8 were used instead, the project would require approximately an additional mile of piping and the only route available would be along the Highway 12 right-of-way. In this event, cost estimates would need to be revised and the funding strategy reconsidered. In any case, the preferred alternative is to provide a groundwater source. If no agreement could be reached with any of the land owners, then the Town would fall back to the next preferred alternative of microfiltration.

In summary, the Town decided on the following course of action:

- Plan A: Construct 2 new Fox Hills wells at Wellsite #6 and/or Wellsite #7 and provide a new pipeline following Route “b” --- Alternative 2b (#1 ranking alternative)
- Plan B: Construct 2 new Fox Hills wells at Wellsite #8 and provide a new pipeline following Route “a” --- Alternative 2a (#2 ranking alternative)
- Plan C: Construct a new microfiltration plant with a new raw water storage pond and sedimentation pond (#3 ranking alternative)

1.5 Project Costs and Budget

The total estimated capital cost for the preferred alternative is \$2,307,372, which is detailed in Table 7.6. Various funding sources for the improvements were considered in Section 9.2 and included a variety of grant and low interest sources available to the Town. The recommended funding strategy includes utilizing the Town's existing CDBG grant and RD grant/loan project and supplementing these funds with a Treasure State Endowment Program (TSEP) grant, a Department of Natural Resources and Conservation (DNRC) grant, and a new grant/loan package through Rural Development.

Table 9.1 presents the proposed funding strategy and Table 9.2 presents a detailed project budget based upon the proposed funding strategy.

The overall funding strategy is anticipated to increase water rates by approximately \$5.78 per month per EDU. However, the Town has already committed to an increase of approximately \$8.51 resulting in an average residential water rate of \$65.51. With a wastewater increase already committed as well, the projected combined water and sewer rate will be approximately \$82.01 per month, which is 137% of the target rate. The resultant user rate increases will provide the necessary funds for the Town to have adequate income to repay the new debt service and coverage requirement as well as adequately maintain the water system (including accounting for previous deficits).

It is also important to note that the project is compatible with the proposed Central Montana Rural Water System. Any money that is spent on the long pipeline would be a direct savings to the eventual rural water system. Furthermore, the proposed system will be able to serve rural residents along the pipeline route and potentially provide stock water, if sufficient quantity is available.

2.0 PROBLEM DEFINITION

2.1 Introduction and Overview

The Town of Melstone has been working towards improving their water system for many years. Major planning began as early as July 1983 when Sanderson/Stewart/Gaston provided a water system study for Melstone. The report concluded that the Town should construct a package-type water treatment plant. This proposal was questioned by the DEQ, who felt that more time should be spent in evaluating potential groundwater sources. In May of 1984, the DEQ wrote Sanderson/Stewart/Gaston noting the high O&M costs and difficulty in keeping trained operators with a water treatment plant.¹ Regardless, a package-type water treatment plant (WTP) was constructed in Melstone in 1986 using water from the Musselshell River. In 2002, discussions with Jerry Burns of the DEQ, who was involved with the project in 1984, noted that a package-type surface water plant never should have been used at Melstone.²

In 1988 the Musselshell River ceased to flow for approximately 1 month. During that time, the Town was able to pump water out of the river from water that had pooled in the deep area by the intake. Groundwater allowed the pooled water to slowly recharge.

In the fall of 1988, Morrison-Maierle prepared two reports regarding alternative water sources for the Town and conducted two thorough hydrogeological investigations. In addition, both the Morrison-Maierle and Sanderson/Stewart/Gaston studies of the alluvium included test pits. Each concluded that the best chance for a groundwater source would be the Fox Hills Aquifer and that the nearest location would be approximately 5 miles from Town.

In 2001, the river again stopped flowing. Although it took a full night to recharge the pooled water in the riverbed, the Town was able to continue receiving water from the seepage. However, in 2002, the river completely dried up in late July and the pooled areas stopped

¹ Montana Department of Health and Environmental Sciences, Letter to Dana V. Cowger, Sanderson/Stewart/Gaston, May 8, 1984.

² Burns, Jerry. Personal Correspondence with Patrick Murtagh. November, 2002.

recharging. For two months the Town survived using water from a hastily constructed raw water reservoir (there were originally two, but the dividing wall deteriorated).

By the time water again flowed in the river, the pond was down to its last few inches, all the water from the swimming pool had been hauled to the raw water storage pond, and the sedimentation pond was at about half its normal operating level. The Town faced the true possibility of losing water completely, which would force them to close down the school and potentially abandon the Town temporarily.

In 2002, the Town attempted to rehabilitate an old Third Cat Creek oil well. The Town Council actually did all the labor in an effort to create a viable Third Cat Creek well from the Drees well east of Town. The Town Council secured funding from the Bureau of Reclamation (BOR) to help with some of the materials cost. Unfortunately, the water quality was terrible (for drinking water) and the yield was less than 3 gpm.

Another Third Cat Creek stock well approximately 4 miles west of Town was tested and found to have TDS's in excess of 3,000 mg/l and fluorides well above the maximum contaminant level (MCL) of 4 mg/l as it tested over 7 mg/l for fluoride. Thus, instead of use for development of a Third Cat Creek well, the money from the BOR was approved for use to construct a test well in the Fox Hills aquifer.

Also in 2002, a preliminary engineering report (PER) was prepared by Montana Engineering and Administration, now Great West Engineering. The PER was developed to determine the best long-term solution for a water supply source and treatment system for Melstone. The report came to the same conclusion reached in the 1988 Morrison-Maierle report, which was to develop a well in the Fox Hills Aquifer approximately 5 miles from Town.

The Town drilled the BOR test well in the Fox Hills aquifer in 2003 approximately 5 miles south of Town. However, the well had a significantly lower yield than originally anticipated (15-18 gpm versus an anticipated 75-100 gpm), and the Town questioned the ability to operate on a groundwater system with such a poor yielding well. Alternatives were reconsidered, but it was determined best to further investigate the groundwater supply by drilling additional wells and test wells.

In 2005, a second well (Well #2) was drilled in the Lance formation approximately 100 feet north of the existing well. The yield was only 5-8 gpm, and the well has high iron and relatively high manganese. Two additional test wells were drilled shortly thereafter. Well #3 was approximately ½ mile southwest of Well #1 and Well #4 was approximately 1 ½ miles northeast of Well #1. Unfortunately, no water was found in either well.

After consulting with the Town's hydrogeologist and Mr. Bob Burgentino of the Montana Bureau of Mines and Geology, a last chance effort at an attempt for a groundwater source was made. In December 2006, the Town constructed a test well (Well #6T) approximately 10 miles west of Melstone. It should be noted that this was the second preferred alternative in the 2002 PER.

The well was found to produce approximately 85 gpm and was determined to have adequate water quality for drinking without any treatment (outside of disinfection). The Town would like to consider developing two production wells in this location. However, before the water can be put to use, it will have to be piped nearly 12 miles to Town.

In order to determine the best route for the pipeline (and size), the Town has retained Great West Engineering (in 2007) to complete a Preliminary Engineering Report for their water system. As part of the PER, a thorough analysis of the existing water system will be conducted. The alternatives will consider improvements needed and will provide recommendations for improvements (phased, if needed) based on a full evaluation of the alternatives.

This PER will follow the Uniform Application Outline as developed by funding agencies serving the State of Montana.

2.2 Location

The Town of Melstone is located in eastern Montana at the east edge of Musselshell County. The Town is situated north of the Musselshell River and just north of Highway 12, about 35 miles east of Roundup. The Town lies in the south half of Section 30 and the north half of Section 31 in Township 10N, Range 31E and has latitude 46.60 North and longitude 107.87 West.

2.3 Planning Area and Existing/Potential Service Area

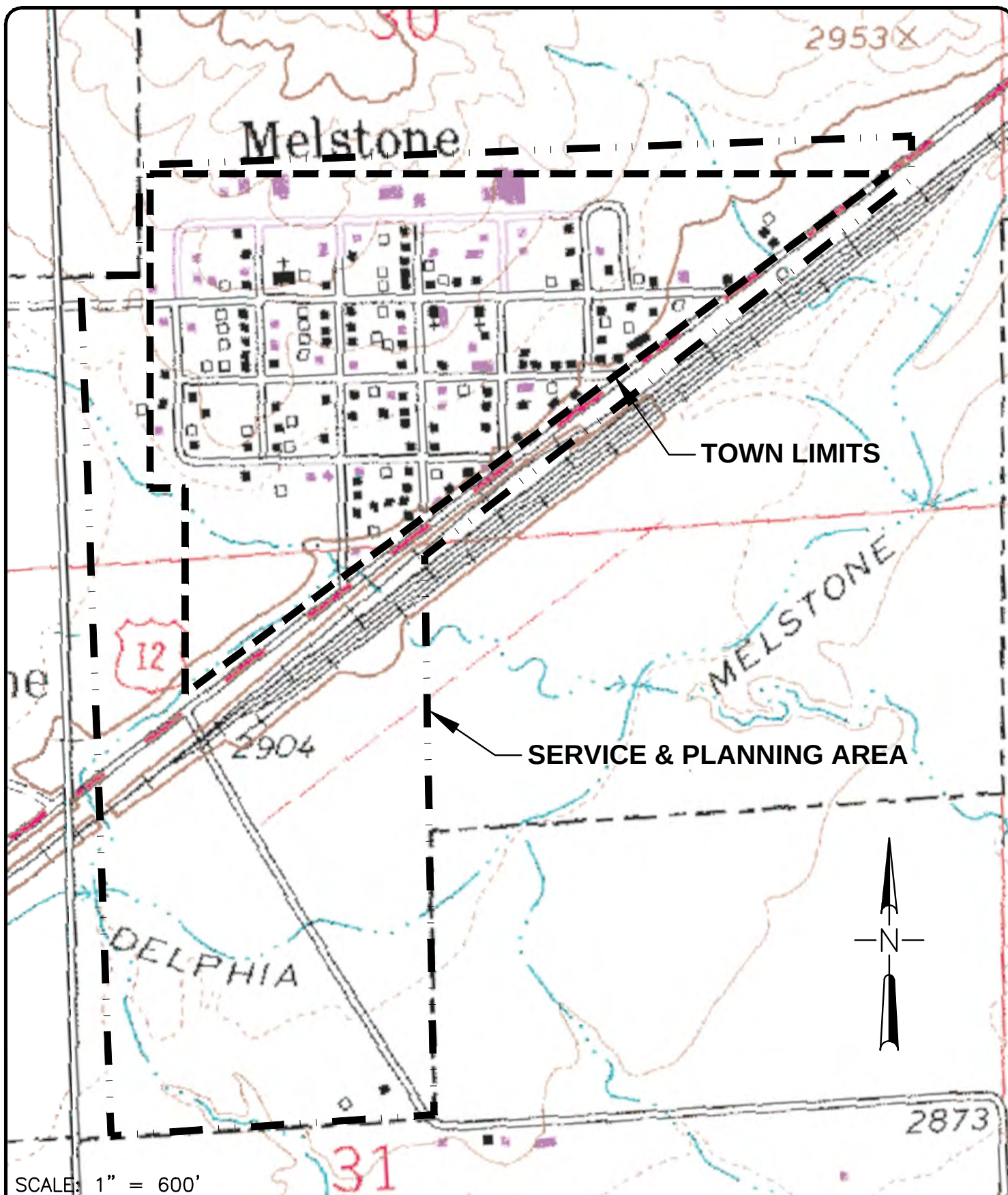
The Town limits for Melstone extend north of Highway 12 to south of 6th Avenue in the north-south direction and from the block west of Cascade Street to the block east of 3rd Street East in the east-west direction. The actual area that is served by the Melstone water system is slightly larger, extending south of the highway just past the water treatment plant. Both the service area and Town limits are depicted in Figure 2.1. It is also worth noting that if a long pipeline is constructed from the well 10 miles west of Town, the system could serve rural residents along the pipeline route as well as provide stock water, if adequate supply is available.

From the Figure it is clear that the service area provides sufficient areas for expansion outside of the Town limits should the Town see additional growth. As will be discussed later in Section 2.6, although there is anticipated of some growth of the Town if the proposed power plant is opened in Roundup, there is no expectation for a significant increase in growth specific to Melstone or for the growth to occur in a concentrated area within or nearby Melstone. Thus, the service area is considered to be reasonable for the planning area of the project. The planning area is also shown in Figure 2.1.

2.4 Physical Characteristics of the Area

2.4.1 Topography

Melstone and the land immediately surrounding it are primarily moderately rolling hills. Elevations throughout Town generally range from about 2,900 feet to 2,960 feet, with the lowest elevations paralleling the highway and the highest elevations in the north. The water storage tank is located on a hill north of Town and has a base elevation of approximately 3,050 feet. For areas outside of the Town limits, the land generally slopes towards the Musselshell River. The river runs generally west to east, so areas to the north of the river have a downward slope to the south and areas to the south of the river have a downward slope to the north. Figure 2.1 provided a topographic map of Melstone and its immediate surroundings.



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TOWN OF MELSTONE, MONTANA WATER SYSTEM PER 2008

Figure 2.1 : TOPOGRAPHIC MAP
AND PLANNING AREA

2.4.2 Area Soils/Geology

Information on the area soils was gathered from the Web Soil Survey.³ See Appendix B for a copy of the soils map and the complete descriptions of area soils.

Soils throughout Melstone are clay. There are really four major types of soils located within the planning area which are described as follows:

Neldore-Abor silty clays, 4 to 15 percent slopes

These soils are located on the very north edge of Town and are labeled as 60D on the soils map. Most of these soils in Melstone include the minor soils Neldore (50%) and Abor (35%) and are comprised of approximately 45.0-47.5% clay, 47.0-47.8% silt, and 5.5-7.2% sand with erosion factors of 0.32 to 0.37. These soils are not considered prime farmland.

Abor-Neldore silty clays, 2 to 8 percent slopes

These soils are located throughout the north 2/3 of Town and are labeled as 60C on the soils map. Most of these soils in Melstone include the minor soils Abor (45%) and Neldore (35%) and are comprised of approximately 45.0-47.5% clay, 47.0-47.8% silt, and 5.5-7.2% sand with erosion factors of 0.32 to 0.37. These soils are not considered prime farmland.

Marvan silty clay, 0 to 8 percent slopes

These soils are located throughout approximately the south 1/3 of Town and continue south past the Highway to just north of the water treatment plant. The soils are labeled as 64B on the soils map. These soils are fairly predominant in the area and include over 30% of the soils in the area shown on the soils map. Most of these soils in the area include the minor soil Marvan (80%) and are comprised of approximately 50.0% clay, 44.7% silt, and 5.3% sand with an erosion factor of 0.37. These soils are not considered prime farmland.

³ Soil Survey Staff, Natural Resources and Conservation Service, United States Department of Agriculture, *Web Soil Survey*, <http://websoilsurvey.nrcs.usda.gov/app>.

Marvan-Vanda silty clays, 0 to 4 percent slopes

These soils are found to the east, south, and west of Melstone and are labeled as 64A on the soils map. Although these soils are generally not found throughout Town, they are predominant throughout the area and include more than 42% of the soils in the area shown on the soils map. Most of these soils in the area include the minor soils Marvan (50%) and Vanda (35%) and are comprised of approximately 50.0% clay, 44.7% silt, and 5.3% sand with an erosion factor of 0.37. These soils are not considered prime farmland.

2.4.3 Groundwater

The potential for groundwater as a water supply is very limited within the Melstone area. Within the last several years, the Town has drilled several groundwater wells in an attempt to find an alternative water supply. However, both quality and quantity are severely restricted. A detailed discussion on the Town's existing wells and test wells is presented in Section 3.3.2.

In general, previous studies and experience has found that the Third Cat Creek, Eagle Sandstone, and Judith River formations are not considered a good source water supply for a community. Each of the formations are noted to have very high total dissolved solids (TDS) content, are corrosive waters, and would be very costly to construction, maintain, and pipe. One well within the Judith River formation was found to have a TDS of 4,500 mg/l (approximately 1,170 feet deep). Another well located within the Eagle Sandstone at about 1,800 feet deep had a TDS of greater than 3,000 mg/l and a yield of less than 25 gpm. The Third Cat Creek aquifer is located even deeper at approximately 4,900 feet below ground. It should be noted that the secondary maximum contaminant level for TDS is 500 mg/l.

In 2002, the Town received help from the Bureau of Reclamation (BOR) to help develop a new water source. The original plan was to rehabilitate an old oil well for use of the Third Cat Creek aquifer, which was located approximately 4,000 feet below the ground. Unfortunately, the water quality was terrible (for drinking water) and the yield was less than 3 gpm. Instead, the money from the BOR was used to construct a test well in the Fox Hills aquifer.

Other Third Cat Creek wells have been tested and results have been similar. Several wells approximately 4 miles west of Town were found to have TDS's in excess of 3,000 mg/l and

fluorides well above the maximum contaminant level (MCL) of 4 mg/l as it tested over 7 mg/l for fluoride.

On the other extreme, much shallower alluvium wells were considered in the 1984 report by Sanderson/Stewart/Gaston. Unfortunately, the saturated alluvium was only about 3 to 7 feet deep. During a much drier year in 1988, a later study of the alluvium by Morrison-Maierle found the saturated thickness to be only 3.5 feet. In addition, water quality was very poor with hardness at over 1,800 mg/l, iron at 3.5 mg/l, and manganese at 0.4 mg/l. Thus, the alluvium was ruled out as a potential groundwater source.

After ruling out the above potential wells, other aquifers considered for municipal use included the Fort Union and Fox Hills formations. Unfortunately, the Fort Union wells throughout the area are low yielding (generally <10 gpm) and have poor water quality. The formation is notable for very high iron and manganese.

The Fox Hills aquifer was actually suggested by the DEQ prior to construction of the water treatment plant, but was ruled out due to cost of a test well. However, the 1988 Morrison-Maierle recommended use of the Fox Hills aquifer as did the 2002 PER by ME&A. Well #1 was drilled approximately 5 miles south of Town, but had a much lower yield than anticipated though water quality was good. The Town attempted to drilled two additional test wells nearby (one to the east and one to the south), but no water was found. In a last chance effort, a Fox Hills well was completed approximately 10 miles west of Town. Again water quality was found to be good, but this time yield was much higher at approximately 85 gpm.

In order to supplement Well #1, the Town also constructed a well in the Lance formation approximately 100 feet north of Well #1. The water quality is adequate, though, iron and manganese levels are higher than desirable. Unfortunately, yield in this well is less than 8 gpm.

The Town's existing wells are described in much greater detail in Section 3.3.2. The other potential aquifers are described in more detail in Chapter 5 of the 2002 PER, of which excerpts are included in Appendix P. In conclusion, after considering all potential groundwater sources, the Town will need to utilize the Fox Hills aquifer approximately 10 miles west of Town in order to obtain an adequate supply of groundwater without requiring any major treatment.

2.4.4 Surface Water

Prior to 2005, surface water was the sole source of water for the Town of Melstone and was a very important resource for the area. Since then, the Town has constructed several new wells and test wells, although only one is currently connected to the system. With construction of the new well, the Town's dependence on the Musselshell River has decreased significantly. This has been extremely important for the Town as the river has completely dried up in numerous years.

The Musselshell River is the only major stream within the general area of Melstone. The Musselshell River starts in the Little Belt Mountains in the Lewis and Clark National Forest and runs east paralleling Highway 12 to Melstone where it turns north and eventually flows into the Fort Peck Reservoir. The river is unique in that its entire length is located within Montana borders and that large mussels, shellfish, and crawdads are native to the river.

Unfortunately, the aquatic life in the river has been in danger, particularly within the last several decades as the river has been very low in recent years. Starting in 1980, the earliest records of very low flow are 1985 and 1988 (very near no flow in 1988). Flows were again very low in 1998 through 2000, however, conditions became much more extreme in 2001 through 2004 when the river completely stopped flowing. In 2001 and 2002, the river actually stopped flowing for more than 2 months.

The Musselshell has continued flowing for the last several years. However, the river is clearly not a reliable source of water for the Town. As such, the Town would like to consider obtaining some additional groundwater sources as a long-term solution to their source water supply problem.

In addition to the river, there is a major irrigation ditch approximately ½ mile south of the river. The Delphia Melstone Ditch essentially parallels the river and is a major source of irrigation water for the area. There are also several other small ditches throughout the area that are unnamed. Once the proposed project is identified, the impact on these ditches can be evaluated in greater detail. Though, it is likely that these smaller ditches can easily be restored if they were impacted by construction.

2.4.5 Vegetation

Information regarding species of concern for vegetation and plants was obtained through the Montana Natural Resources Inventory System.⁴ There were some animal species of concern but no plants of concern within the area.

Land usage within the general vicinity (other than urban) is primarily rangeland. There is minimal agricultural use of the land and the soils maps indicated that the land nearby Melstone is not considered prime farmland.

2.5 Environmental Resources Present

As part of any major construction project, the impacts of the project on the surrounding environment should be considered and provisions made to mitigate any negative impacts. As part of the process of identifying any potential impacts, various local, state, and federal agencies were contacted and requested to provide input on the proposed project. The correspondence from these agencies along with the information presented herein was used as the basis for completing the Uniform Environmental Checklist. A complete Uniform Environmental Checklist is included in Appendix A.

Based on observation by the engineer and lack of any contradictory data, it is not anticipated that any of the proposed potential water projects would adversely impact wetlands, vegetation, or species of concern.

2.5.1 Land Resources

The area within the project planning area is primarily residential as confirmed by the Montana Natural Resource Information System.⁵ The land immediately surrounding Melstone is primarily rangeland. Information obtained regarding the soils in the area from the Web Soil

⁴ Natural Resource Information System. State of Montana. <http://www.nris.mt.gov/>.

⁵ Natural Resource Information System (NRIS), State of Montana, <http://nris.mt.gov>.

Survey⁶ confirmed that the area is not considered prime farmland. No significant areas of land use are anticipated to change as a result of the recommended project. Thus, no negative impacts to land resources are expected.

2.5.2 Biological Resources

A search of species of concern was conducted through the Natural Heritage Program website.⁷ There are seven species of concern that are located within Township 10N, Range 31E. Each of these is listed by their common name and various ranking system in the table below.

Table 2.1: Species of Concern for Melstone Area

Species of Concern	Global Rank	State Rank	USFWS	USFS	BLM
Northern Leopard Frog (amphibian)	G5	S1S3			SENSITIVE
Lark Bunting (bird)	G5	S3B			
Chestnut-collared Longspur (bird)	G5	S3B			SENSITIVE
Greater Sage-grouse (bird)	G4	S3		SENSITIVE	SENSITIVE
Peregrine Falcon (bird)	G4	S2B	DM	SENSITIVE	SENSITIVE
Sage Thrasher (bird)	G5	S3B			SENSITIVE
Brewer's Sparrow (bird)	G5	S2B			SENSITIVE

The global ranking (G) is for range-wide ranking of the species, and the state ranking (S) is a ranking that is state specific. The rank of the species ranges from 1 to 5 with a 1 being critically imperiled and a 5 being demonstrably secure. Thus, the numerical ranking reflects the degree to which the species is at risk. In summary:

- 1 – At high risk
- 2 – At risk
- 3 – Potentially at risk
- 4 – Uncommon but not rare
- 5 – Common, widespread, and abundant

⁶ Soil Survey Staff, Natural Resources and Conservation Service, United States Department of Agriculture, Web Soil Survey, <http://websoilsurvey.nrcs.usda.gov/app>.

⁷ Montana Natural Heritage Program, Natural Resource Information System. *Species of Concern*. <http://www.nhp.nrix.gov/SpeciesOfConcern>.

The “B” ranking refers to the breeding population of the species in Montana. The frogs would be potentially benefited by the proposed project by eliminating the Musselshell River as a source of water supply. This would increase the amount of water passing by Melstone in the river, which would increase the habitation areas of the frogs. The proposed project would not be anticipated to impact the birds, which are primarily of concern for the breeding population.

2.5.3 Water Resources/Floodplains/Wetlands

Surface Water

Surface water was discussed in detail in Section 2.4.4. If surface water can be eliminated as a source water supply for the Town, impacts to surface water will be very beneficial. The Town would no longer be taking water out of the river allowing more water to pass through the Musselshell River. In addition to benefits to the river, it would also help any irrigators who have a post-1914 water right claim.

Groundwater

Groundwater was discussed in detail in Section 2.4.3. If new groundwater wells are constructed, care would be taken to minimize disturbance of and impacts to the aquifers. The design of the well would include a sealant to prevent contamination of the aquifers. It should be noted that it is to the Town’s benefit to create as minimal impact as possible to the aquifers to ensure adequate quality and quantity of their well.

In addition, there was a search of the Montana Bureau of Mines and Geology (MBMG) website for additional wells in the Fox Hills aquifer and none were found within a 20 square mile radius. This further supports that the proposed project is anticipated to have a negligible impact to the groundwater resources.

Floodplains

The FEMA Map Service Center website⁸ was reviewed for floodplain maps of the area. The Town of Melstone has not been mapped but was identified to be Panel No. 300099. There were maps available for the surrounding region. The area between Musselshell and just west of Melstone is included in Panel No. 3001740011B, and the area south of Melstone is included in Panel No. 3001740012B. The applicable sections of the floodplain maps are included in Appendix B.

As would be expected, the floodplains are primarily located on either side of the Musselshell River. Potential well pipeline routes to be discussed in the Alternative Analysis section may cross the Musselshell River or parallel the Musselshell River. This would be considered part of the floodplain. Thus, the Town would need to coordinate with and obtain applicable permits from the County Floodplain Coordinator, the Department of Natural Resources and Conservation, and the Army Corps of Engineers. Provided the proper planning and permitting steps are taken, there are no problems anticipated with floodplain coordination. It is worth noting that a similar permitting process was completed for the existing 5-mile pipeline and no problems were encountered.

Wetlands

The Natural Resource Information System (NRIS) website was searched for wetlands mapping of the area. However, wetlands maps do not exist for any of Musselshell County. The US Fish and Wildlife website⁹ was also reviewed and a copy of the map depicting “no data” for the area is included in Appendix B. The Engineer did not note any wetlands in the area and no negative impacts are anticipated as a result of the proposed project.

⁸ Federal Emergency Management Agency (FEMA), Map Service Center.
<http://msc.fema.gov/webapp/wcs/stores/servlet/>.

⁹ U.S. Fish and Wildlife Service, United States Department of the Interior, *National Wetlands Inventory*.
<http://www.fws.gov/nwi/>.

2.5.4 Cultural Resources

The Montana Register of Historic Places¹⁰ includes only one listing for Musselshell County, which is located in Roundup, far from any potential proposed project.

The Montana State Historic Preservation Office (SHPO) was also contacted for information on any cultural resource inventories or investigations previously completed in the project area. SHPO provided a response stating that:

As long as this project follows the existing right-of-way we feel that there is a low likelihood cultural properties will be impacted. We, therefore, feel that a recommendation for a cultural resource inventory is unwarranted at this time.

2.5.5 Socio-economic and Environmental Justice Issues

The 2000 Census conducted by the U.S. Census Bureau listed the Town of Melstone as a community with a low to moderate income (LMI) level of 39.6%. Low income is defined as a family earning less than 50% of the median income for the county and moderate income is defined as 50 to 80% of the median income. The Town did not feel that the census provided an accurate representation and thought that the actual percentage of LMI households in Melstone was much higher.

Thus, an income survey was conducted by the Town in April 2002 in accordance with the guidelines developed by the Department of Commerce's Community Development Block Grant (CDBG) program. All households within Melstone were surveyed and there was a response rate of 83%. The survey found that 68.2% of the residents in Melstone are considered LMI and 31.8% of the residents are considered low income. As a result of the income survey, the Town was eligible to apply for a CDBG grant, which was ultimately awarded. In fact, partial funds are still available for the second phase of the water system improvements.

¹⁰ State Historic Preservation Office (SHPO). Montana Historical Society. *National Register of Historic Places Listed in the State of Montana, Updated in 2002.*

It is important to note that although the community is considered low-income, the concerns with the existing water system impact the community as a whole. Complete loss of water supply would be devastating to the entire community proportionately. Similarly, improvements to the water system, particularly the water supply, will be proportionate across the entire community.

2.6 Growth Areas and Population Trends

Like most of eastern Montana, Melstone and Musselshell County have experienced a steady decline in population since the mid 1900's until about 2000. Beginning in 2000, the population appears to have leveled off slightly based on annual estimates prepared by the U.S. Census Bureau. In fact, there was a slight increase in population by 2006. It should be noted that there has not been any area of concentrated growth and/or decline, but rather the decline and growth has been an area-wide trend.

Table 2.2 below presents a summary of the historical populations for both Melstone and Musselshell County based upon available census data through the year 2000.

Table 2.2: Historic Populations Based on Census Data

YEAR	MELSTONE			MUSSELSHELL COUNTY		
	POPULATION	10-YEAR CHANGE	ANNUAL CHANGE	POPULATION	10-YEAR CHANGE	ANNUAL CHANGE
1940	203			5,717		
1950	195	-3.94%	-0.40%	5,408	-5.40%	-0.55%
1960	266	36.41%	3.15%	4,888	-9.62%	-1.01%
1970	227	-14.66%	-1.57%	3,734	-23.61%	-2.66%
1980	238	4.85%	0.47%	4,428	18.59%	1.72%
1990	166	-30.25%	-3.54%	4,106	-7.27%	-0.75%
2000	136	-18.07%	-1.97%	4,497	9.52%	0.91%
	AVERAGE		-0.64%	AVERAGE		-0.39%

Table 2.3 presents a summary of the population estimates for both Melstone and Musselshell County for 2000 through 2006 as published by the U.S. Census Bureau.

Table 2.3: Population Estimates by U.S. Census Bureau¹¹

YEAR	MELSTONE		MUSSELSHELL COUNTY	
	POPULATION	ANNUAL CHANGE	POPULATION	ANNUAL CHANGE
2000	136		4,500	
2001	135	-0.74%	4,446	-1.20%
2002	135	0.00%	4,460	0.31%
2003	136	0.74%	4,486	0.58%
2004	136	0.00%	4,514	0.62%
2005	136	0.00%	4,474	-0.89%
2006	139	2.21%	4,586	2.50%
	AVERAGE	0.37%	AVERAGE	0.32%

Up through 2000, both Musselshell County and Melstone experienced a steady decline in population. Melstone lost an average of -0.64% per year while the loss in Musselshell County was slightly less with an average of -0.39%. However, since 2000, population estimates show slight increase for both Melstone and Musselshell County with averages of 0.37% and 0.32%, respectively.

Based on historic populations without any major economic development, no major or sudden increases in population would be anticipated for Melstone in the near future. However, there is potential for the area to see some economic growth through the new power plant proposed south of Roundup. At one time, it was projected that the proposed power plant could significantly increase the population of Melstone within a ten year period. However, the plant has been proposed for more than a decade and has not yet materialized. Also, most of the growth would be expected in Roundup with a smaller portion affecting Melstone. Considering the recent growth in Melstone has been slight and overall historic populations have been on the decline, a more modest increase of 1.0% per year is considered adequate to cover additional growth anticipated from the power plant. The growth is anticipated to be spread throughout Town, and there are no areas identified that are expected to receive concentrated growth.

¹¹ *Annual Estimates of the Population for Incorporated Places in Montana, by County: April 1, 2000 to July 1, 2006.* Population Division, U.S. Census Bureau. June 28, 2007.

In addition to its resident population, the Town provides water and sewer services to the school, which includes all grades, K-12. As of the 2006 school year, in addition to staff and children living in Melstone and teaching or attending school, the school served another 7 out-of-town staff members and 50 out-of-town students. The result is an additional 57 out-of-town persons. Considering that water used at the school by these out-of-town persons is much less over an entire day than a resident of Melstone, the population of these out-of-town persons should be adjusted according to comparative water use.

Lunch is the only meal served by the school and showers are only taken by the students in grades 8-12 (which require both shower water and towel-washing water). Thus, it is determined that each out-of-town student and faculty should be counted as only 1/3 of an equivalent person. It should be noted that actual flows are known for the school and overall system, and school population would be expected to rise and fall with respect to the overall population of the Town. Accordingly, in terms of planning, the actual proportion used specifically to compensate for out-of-town persons at the school is of very little or no consequence in system sizing. For consistency throughout this report, the equivalent population of out-of-town persons at the school for 2006 will be considered to be 19 equivalent persons (57 persons x 1/3 equivalent person/person).

Table 2.4 provides a summary of the projected population through the design year, 2030, including a 1.0% growth rate and the equivalent population from the school (also projected for an annual 1.0% increase).

Table 2.4: Projected Populations for Melstone

YEAR	ANNUAL GROWTH RATE	EQUIVALENT POPULATION		TOTAL EQUIVALENT POPULATION
		RESIDENT	SCHOOL (OUT OF TOWN)	
2006		139	19	158
2010	1.00%	144.6	19.8	164
2020	1.00%	159.8	21.8	182
2030	1.00%	176.5	24.1	201

Design throughout the report will be based on these projected populations presented in Table 2.4. The current population will be considered to be the 2006 equivalent population of 158 persons as that is the last year of full water usage records. Similarly, the design population is projected to be 201 persons for the design year of 2030. It should be noted that this is very near the resident population seen in Melstone in the 1940's, which further supports that the population projections are reasonable.

3.0 EVALUATION OF EXISTING SYSTEM

3.1 Schematic Layout

The Town of Melstone is served by a typical grid-type water distribution system with pipe sizes ranging from 4-inches to 8-inches in diameter. The distribution system was upgraded in 1988 and nearly all pipe was replaced with PVC pipe. Figure 3.1 provides a map of the distribution system with locations of hydrants, the storage tank, and the treatment plant indicated.

The Town of Melstone's water treatment plant is a package-type plant that was installed in 1986. The plant has not had any major upgrades since that time, but due to the loss of the water supply during several consecutive summers early in the decade, the Town added a raw water storage pond. Normally, water is pumped from an intake situated on the Musselshell River up to the sedimentation pond. Water from the settling pond is drawn down to the recycle ponds and then enters the plant along with the recycled backwash water via process pumps. Polymer and alum are added at a passive flash mixer and go through a two-train passive flocculation system. The water then flows into the clarifiers with tube settlers and then through either of two filters. Finished water flows by gravity into the clearwell, and is pumped out via either or both process pumps.

Once the raw water ponds were constructed in 2002, the Operator began using a portable pump to pump the water from the Musselshell River into the raw water storage ponds during emergency type situations. Another portable pump was then used to pump water from the raw water storage ponds to the recycle ponds. From the recycle ponds the water would continue through the normal water treatment cycle. A schematic of the water treatment plant is provided in Figure 3.2.

Modifications to the City's water system in 2005 included installation of individual meters and connection of Well #1 into the system. The well is located approximately 6 miles south of Melstone and is connected to the system via a 5 mile pipeline that runs parallel to the Melstone-Custer Road into the treatment plant. The new pipeline is HDPE and varies in size from 6-inch to 4-inch. It is important to note that the well water is directed straight into the clearwell and does not undergo full treatment. A map of the new pipeline is included in Figure 3.3.

All components of the water system will be discussed in greater detail later.

3.2 History

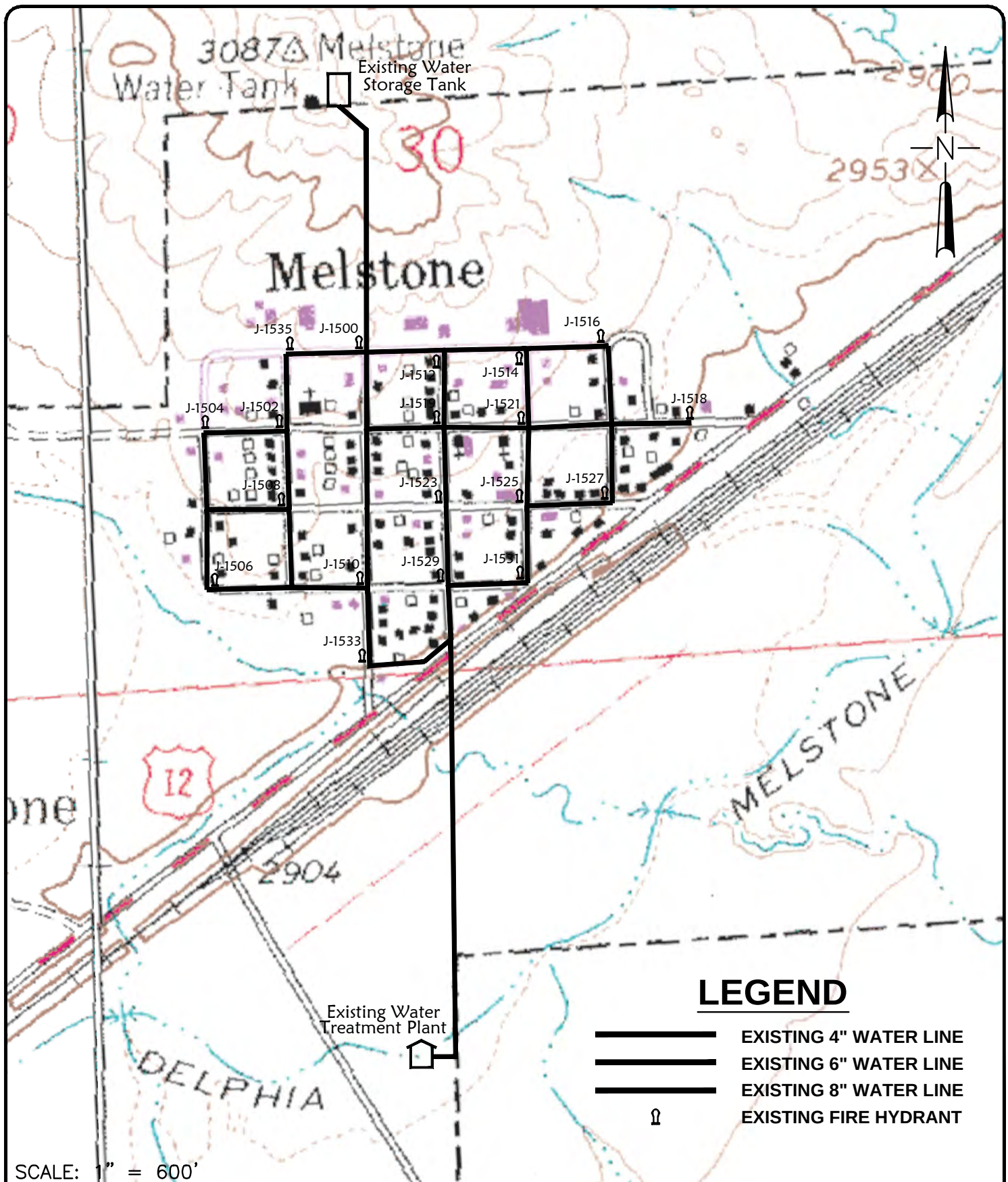
The 2002 PER provided a very detailed history of the water system. Rather than referencing the write-up, for ease of the reviewer it has been re-inserted into this report.

The Town of Melstone used an infiltration gallery to provide water for residents prior to 1986.

In 1983 the Town hired Sanderson/Stewart/Gaston to examine the water system and recommend improvements (completed July 1983). The 1983 report recommended construction of a surface water intake and surface water treatment plant. The DEQ had a number of concerns with the proposed project and requested that an additional study be done regarding potential use of groundwater. Following the request by the DEQ to further analyze the potential for groundwater, the 1983 study was supplemented with an addendum to that study in 1984.

Field studies by Sanderson/Stewart/Gaston clearly demonstrated that the shallow alluvium near the river would not be appropriate for shallow wells nor for an infiltration system (discussed as the “Ranney System” in earlier studies). Reasons included the very thin depth of production area and the very low quality (hardness at 1,800 ppm and TDS well over 2,000 ppm) of the water from the alluvium. It should be noted that one test pit was only 15 feet from the River itself. This option of using the shallow alluvium was again studied in 1988 by Morrison Maierle with additional test pits dug, and reaching the same conclusion.

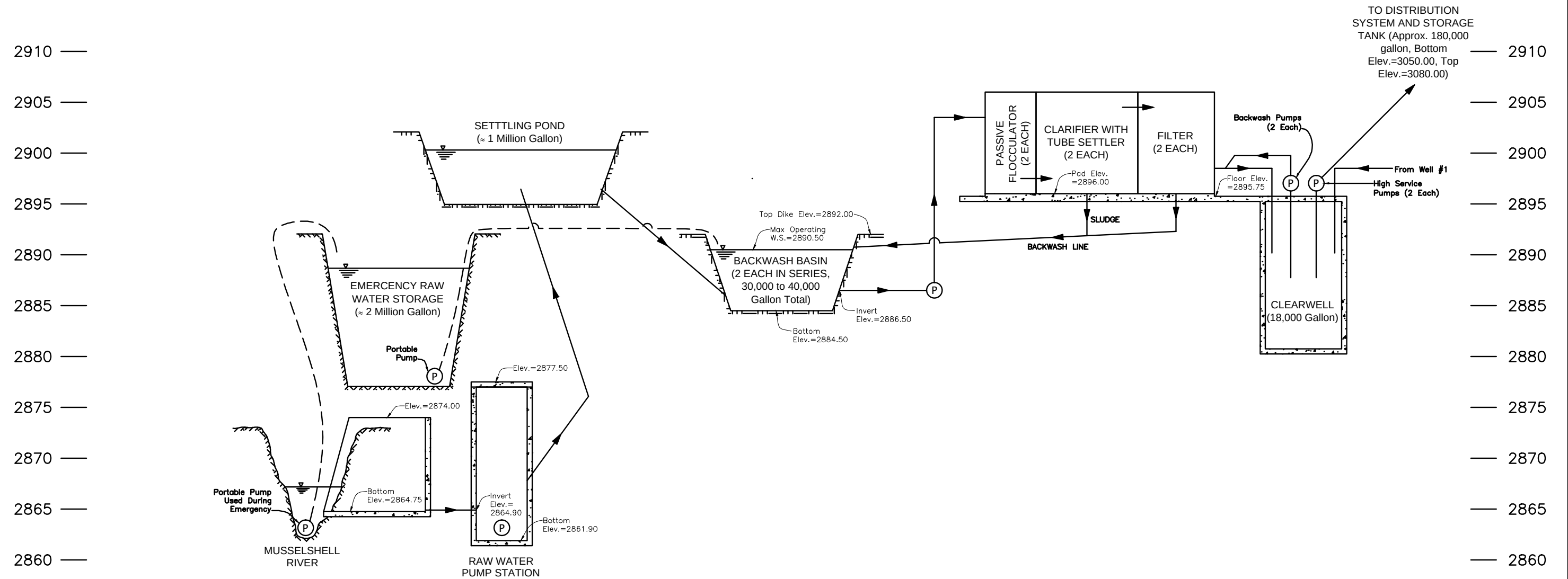
It is not clear why Sanderson/Stewart/Gaston did not further explore the Fox Hills Aquifer. The firm conducted a phone call with Mike Zaluski of the Montana Bureau of Mines, who noted that the only source of potentially acceptable groundwater would be from the Fox Hills Formation south of the Musselshell River. Mr. Zaluski indicated that a test well would be absolutely essential for exploring this option and estimated the cost

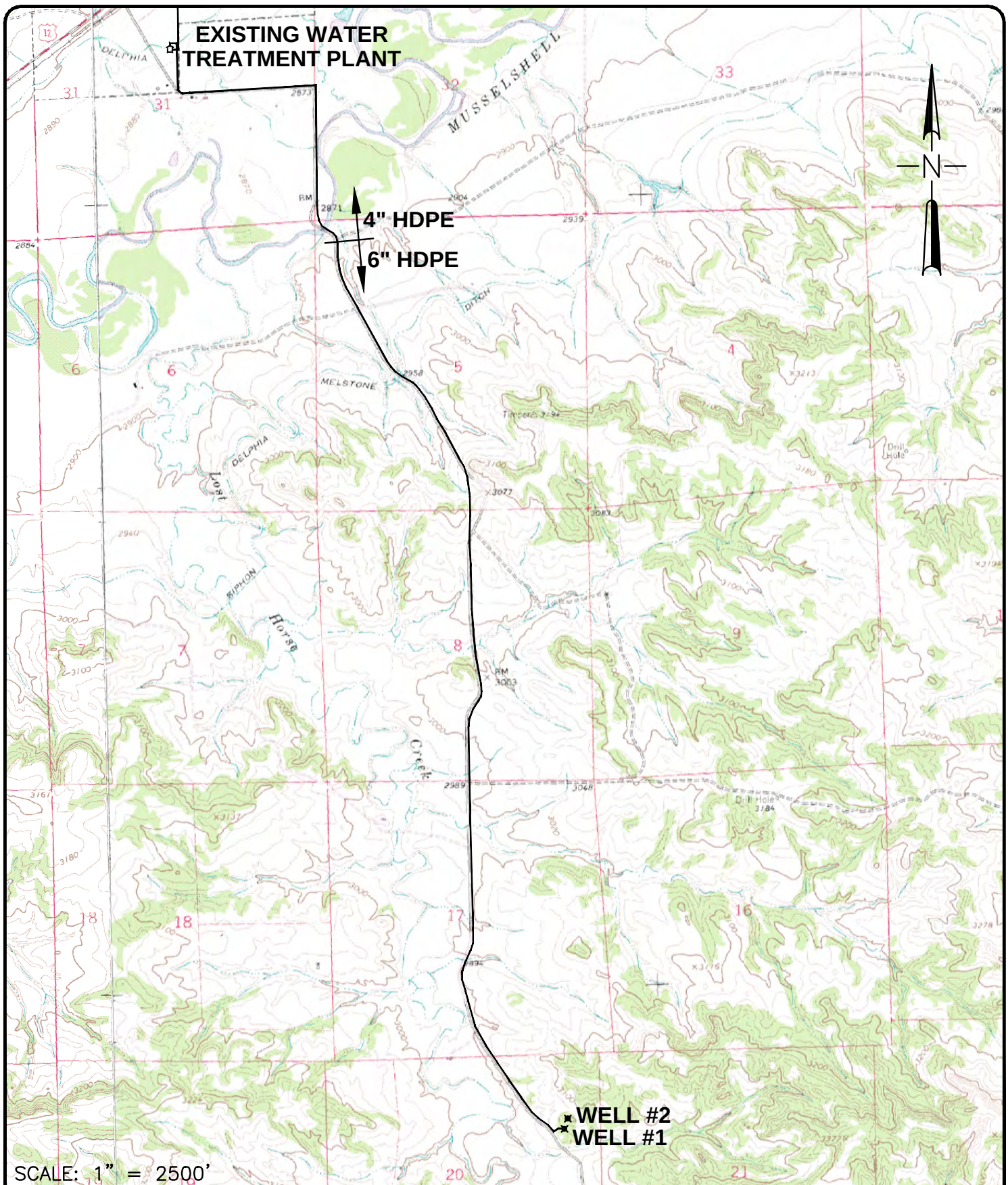


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TOWN OF MELSTONE, MONTANA WATER SYSTEM PER 2008

Figure 3.1 : EXISTING WATER
DISTRIBUTION SYSTEM





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**TOWN OF MELSTONE, MONTANA
WATER SYSTEM PER 2008**

**Figure 3.3 : WELL #1
PIPELINE IMPROVEMENTS**

at between \$20,000 and \$45,000 and has no guarantee. The report concluded the following:

Based on the cost and level of risk involved, this alternative is not recommended unless no other options are available.¹²

The above conclusion was termed later in the Morrison Maierle report of 1988 as “not accurate.”¹³ The conclusion to not explore the Fox Hills may have been too hastily made by a Town and engineer confident that the Musselshell River would always provide a sufficient source of water, and perhaps the influence of the natural desire to avoid exploratory costs and delay a project they were anxious to begin.

The Town did subsequently install a surface water intake and treatment plant. The plant does not meet current design or performance standards.

By summer of 1988, the drought had created a crisis situation. The water level in the Musselshell nearly dropped to 0 flow. This prompted the Town to declare a state of emergency on September 1, 1988 and to authorize a study to find an emergency water supply. Using information from the 1983 report, its addendum and following additional research on the area’s hydrogeology, the September 1988 report by Morrison Maierle disagreed with some of the earlier findings. Morrison Maierle first prepared a report/application for funding to the DNRC titled “Application for Emergency Funding to the DNRC for the Purpose of Developing an Alternative Water Supply to Alleviate the Water Crisis in the Town of Melstone.” That report was submitted on September 1, 1988. That report notes that use of raw water reservoirs would be very beneficial and recommends their use for temporary supply. That study also notes the potential for using the Fox Hills-Hell Creek Aquifer as a permanent solution to the water shortage, and using a well field in the shallow alluvium near the Musselshell.

¹² Sanderson/Stewart/Gaston. *Comprehensive Water System Study Melstone, MT, Addendum #1 Summary of Supplementary Groundwater Evaluation.* August 1984, pgs 3-4.

¹³ Morrison-Maierle, Inc. *Applications for Emergency Funding to the Department of Natural Resources and Conservation for the Purpose of Developing an Alternative Water Supply to Alleviate the Water Crises in the Town of Melstone, Montana.* September 1988.

The September 1, 1988 report/application was quickly superseded by an updated study. This second study also by Morrison Maierle, was concluded after drilling five more test wells and two pits in the alluvium to add to the information gathered by Sanderson/Stewart/Gaston. That 1988 study titled “Melstone Water Supply Study—Musselshell River Alluvium vs. Deep Wells,” is unfortunately inconclusive, as stated by the hydrogeologist.

I cannot make the final decision between the Fox Hills-Hell Creek aquifer and the alluvium because I do not have the necessary economic data for my use.

However, the study follows significant fieldwork and provides the foundation for water source development in the present PER by Montana Engineering and Administration. The October 1988 report clearly objects to what may have been premature and/or otherwise unsubstantiated claims in the 1983/84 reports rejecting use of the Fox Hills-Hell Creek Aquifer. In the October 1988 report, the Geologist Roger Miller states:

Evaluation of the Fox Hills-Hell Creek aquifer in the engineering report by Sanderson/Stewart/Gaston, Inc. is not accurate.

Mr. Miller then goes on to point out reasons supporting use of that aquifer including further research into existing wells (water and oil wells) that penetrated this aquifer. The TDS for the 1988 test wells were nearly 3000, and the usable saturated thickness was only 3.5 feet, at a time when the river was low, but still running. Given that the river has now stopped flowing completely for one month in 2001 and nearly 3 months in 2002, the saturated thickness would be even less, and with a greater groundwater influence, the TDS would be increased, while quantity would be drastically decreased.

The present PER by ME&A examines the costs of the two supply alternatives presented by Morrison Maierle in the September and October 1988 reports (using updated costs) and also examines the potential for savings by the possible elimination of the existing water treatment plant. This PER also notes recent findings that support Morrison Maierle’s (MMI’s) conclusions regarding further use of the Third Cat Creek Aquifer.

No construction resulted from the 1988 studies. This is likely due to the fact that the extremely dry summer months of June – August of 1988 in Melstone (0.59, 0.12, and 0.22 inches) were countered with a relatively wet September with 2.08 inches precipitation, and normal reduction in irrigation during the later part of September. 1989 rainfall was slightly above average at just over 16 inches compared to the total of 10.9 inches for 1988. The Musselshell continued with sufficient flows through year 2000. While the water treatment plant has begun to show its age, there have been no major improvements required for treatment.

The 1998 – 2002 drought conditions have again created an emergency situation in Melstone. In 2001 the Musselshell stopped flowing, but the Town was able to dig into the channel near the intake and obtain enough water to keep pressure in the distribution system after the Town managed to cut its water use by half during that hot summer and fall (the channel would not refill during the 2002 drought year). The Town has been seeking funding assistance since late fall of 2001, though initially for construction funds (see the letters from Bob Fischer on 11/01 and Scott Irvin from November, 2001, and DEQ emails in the appendix). The responses to the Town's requests noted the importance of having an engineer review the situation prior to conducting major improvements that require state funding. The Town was approved by TSEP (May 2002) for a PER grant. The Town obtained an INTERCAP loan to supplement that grant.

The water level was frighteningly low during the fall of 2001, and the Town made efforts to secure water directly, requesting that MK Weeden Construction share its water rights. However, as noted in their response of 9/5/01:

We would be willing to let 2 acre feet of our water go by so that you may make use of it. Earlier this week we expressed this to the Deadmans Basin Water Users Association who informed us that if we let the water go by there is a good chance that the water would never reach your town...

MK did offer the use of an 8,000 gallon water tanker for \$65 per hour, but this would be a very limited help and far from a long term solution. A similar offer to haul water was made by the Army Corps of Engineers. Unfortunately the Corps found Lewistown as the

closest place from which to access water (about 120 miles each way) as noted in the report “Economic Recovery from Drought and Fires for Montana Communities, Counties and Tribes” by the Army Corps of Engineers, August 21, 2001.

The appendix provides documentation of the development of the water emergency in Melstone and the efforts the Town has made to date to resolve the problems. The problem began several years ago as the Montana drought was particularly harsh in the Musselshell watershed. This area relies on the Musselshell for irrigation water and drinking water. Unfortunately, as noted by the District Judge, the state does not give preference to those with water rights for human direct use (municipal water systems) over irrigators.

The Town reacted by first requesting a review of the situation by the water courts (no help) and funding agencies. Seeing the very low levels in the River during the winter, the Town decided to construct an additional raw water pond(s) to help it when the River would likely run dry in summer/fall 2002. The Army Corps of Engineers (ACE) has offered to use water buffalos, but the water would need to be transported over very long distances (from Lewistown as quoted by the ACE).

Formal declaration of an emergency was made by the Town on August 28, 2001. Also on August 28, an email from Jim Melstad to John Tubbs noted:

As you can see, they are in trouble and getting deeper into it. Do any of you have any suggestions for short-term relief...

See also the correspondence from District Judge Randal Spaulding regarding water rights in response to the citizens concerns over the water shortage in Melstone. That letter states:

The Town of Melstone has requested that this Court enter an order akin to the one that Hon. Roy C. Rodeghiero did last year requiring that all irrigation of crops from the Musselshell River cease in order to maintain minimal stream flows to supply domestic municipal, stock and wildlife water. However there are several matters that lead me to conclude that I can not enter such an Order.

The judge further states:

While it seems almost axiomatic to state that in times of water shortage human water consumption and uses should take precedence over uses for irrigation, livestock, etc..., in the hours and hours of research that I have devoted to the subject, I have found that neither the Montana Legislature nor the Montana Supreme Court has stated as much.

From the judge's letter it is obvious that there is no solution to be found from the courts and that although it would seem obvious that a Town would get a higher priority than an irrigator, such is clearly not the case, and as the judge notes on the fourth page of his letter, there are over 100 water rights senior in time to Melstone's 1914 right.

Upon declaring an emergency situation in the summer of 2001, the Town implemented a 2 mil levy to help cover needed emergency improvements (the levy is still in effect). See the appendix for the resolution declaring the state of an emergency.

The Town has tried to obtain assistance from the Court, the DNRC, Army Corps of Engineers, DEQ, and governor's office. The Town has received a great deal of sympathy, but have not been able to obtain any financial assistance, largely due to lack of any PER (now underway). See the appendix for correspondence to date. The Bureau of Reclamation (BOR) has offered to assist with as much as \$60,000 for emergency improvements to provide a water source during the drought (this BOR money was originally for the development of a Third Cat Well which was later found to not be feasible). This money will be used to construct a test well in the Fox Hills aquifer, likely in February, 2003.

The Town recently took a major step in determining what its options would be for grant assistance. On Thursday, April 18, 2002, income surveys were sent to all residents. As of May 13, 2002 87% had been returned showing an LMI rate of 68.2%.

The Town of Melstone has made an emergency expansion of its raw water reservoir. It had bills of approximately \$20,000 toward water system improvements in 2002, primarily for expansion of the reservoir, even though it did not have that much in any reserve

account. The Town took a loan against its gas-tax fund and sewer fund in order to pay for those improvements. The banks of the emergency pond are steep and unstable and there is no piping at all, nor any lining. There was a divider wall between two ponds, but this has faltered and there is essentially only one pond now.

In July of 2002 the Town completed rehabilitating an old oil well for use of the Third-Cat aquifer located at about 4,000 feet below the ground. Unfortunately, the water quality was terrible and the yield less than 3 gpm. The construction of the new well perforation and locations was done under the supervision of a hydrogeologist (Lafayette Poole).

As of August 1, 2002, the Town implemented a rate increase of \$5.50 per EDU. The income from that increase will be primarily used to pay back the INTERCAP loan for the PER, as well as the \$15,000 intergovernmental loan from the gas tax fund, and \$5,000 loan from the sewer fund used to help offset costs of constructing the upground storage pond in 2002.

As will be discussed in the alternative analysis, the Town also examined additional wells in the area, particularly one productive Fort Union well. To help lessen the demand for water by charging user fees based on the actual usage amount, the Town plans to install meters as a part of the first phase of construction.

It should also be noted that since the time of writing the 2002 PER, the river also stopped flowing for a month or more in 2003 and 2004, in addition to 2001 and 2002.

The 2002 PER evaluated numerous alternatives and ultimately recommended Alternative #2: Fox Hills Well 5 miles south of Town. At the time of the PER, the Fox Hills well was expected to produce approximately 75 gpm per the 1988 groundwater study prepared by Morrison Maierle. However, upon completion of a well in 2002 (Well #1), it was determined that the yield was significantly less at only about 15-18 gpm.

A total production of about 75 gpm was desired and anticipated by the 1988 study, but less than 25 gpm would actually be needed to meet average day demands. Thus, it was determined if the Town could complete a second well in the Fox Hills aquifer that would produce approximately 18-25 gpm, then the higher quality Fox Hills water would be able to meet demands for

approximately 8 months out of the year. The Town could then supplement the Fox Hills wells with lower quality Lance or Ft Union formations to meet higher summer demands.

The Town decided to move forward with the pipeline project to connect Well #1 to the water system (with the help of additional grant funds from Rural Development and the Water Resource Development Act). In June of 2005, the Town completed the Meters and Well Pipeline project. The project included approximately 5 miles of 4" and 6" HDPE pipe, which was used to connect Well #1 to the water treatment plant (into the clearwell) along with providing meters for individual connections in an additional effort to help conserve water.

After additional hydrogeologic research and design as well as land procurement and agreements were completed, the Town was ready to move forward with the additional wells needed to supplement the water source. In October 2005, the Town bid the "Wells #2 and #3" project. The project was awarded later that year, which was to construct a supplemental Lance well (Well #2) and a second Fox Hills well (Well #3). The Lance well is located approximately 100 feet north of the existing Well #1. The Lance well appeared to show potential, however, after the casing, screen, and packing were installed, the well was showing a maximum yield of 10 gpm. The driller tried to reset the casing in hopes of obtaining additional yield. However, the casing could not be pulled. The driller did rework the well with detergent, but after further testing of the well, it was determined to have a yield of only about 5-8 gpm. In addition, the water quality was found to be very poor with very high iron, sulfate, hardness, and TDS of roughly 2,600 ppm.

Well #3 was drilled just after Well #2 and was located approximately 1/2 mile southwest of Well #1. As noted above, Well #3 was intended to be a second well in the Fox Hills formation. However, the Fox Hills formation was not found while drilling the pilot hole. The well was abandoned and the Town moved to a new site. The site had been identified as a backup site and is located approximately 1 mile northeast of Well #1 on state land. Unfortunately, when drilling the pilot hole for this well (Well #4), no Fox Hills formation was found here either.

After carefully considering the results of all test wells and pilot holes and advice from several professionals, including Bob Burgentino of the Montana Bureau of Mines, it was concluded that the only potential for obtaining an adequate supply of water from the Fox Hills aquifer would be to the far west. The 2002 PER and 1988 Morrison Maierle study had previously identified a

potential well location approximately 12 miles west of Melstone, near Musselshell. In fact, in the 2002 PER, Alternative #3: Fox Hills Well 12 miles west of Town was the recommended alternative if the first well was found to not be practical.

At a last chance effort to find a groundwater source with reasonable quantity and quality, the Town opted to drill a test well at the site 10 miles west of Melstone. The “Test Well 6T” was bid on October 3, 2006 and was completed on December 10, 2006. A 24 hour pump test indicated the test well had a yield of approximately 85 gpm. The Town would like to consider completing this test well and drilling a second well nearby, which would provide adequate supply for the Town throughout the year. However, there are currently some concerns with reaching a reasonable agreement with the land owner, which will be discussed in detail later.

Because of the numerous changes from the actual findings to those predicted in the previous studies, the Town is updating their PER to reflect the actual findings. As part of the PER, alternatives for source water supply will be re-evaluated, including both surface water and groundwater supplies. Since the time of the last PER, costs have changed significantly and the Long Term 2 Enhanced Surface Water Treatment Rule (LT2) has been finalized, all of which could have an impact on the recommended alternative. In addition, a new funding package will also need to be considered to assure the Town has adequate funds to complete the new recommended project. This report will address all of these items.

3.3 Analysis of Existing System

3.3.1 Water Demand

The Town has excellent records for water production for many years. The records include the volume of water pumped by the process pumps, backwash pumps, and high service pumps. In addition, the Town installed a meter on the new well pipeline, which records the total volume of water being produced by Well #1. The Operator records this on a daily basis along with the other treatment plant records. Between the two source water supplies, the records allow easy calculation of the total amount of water produced on a daily basis.

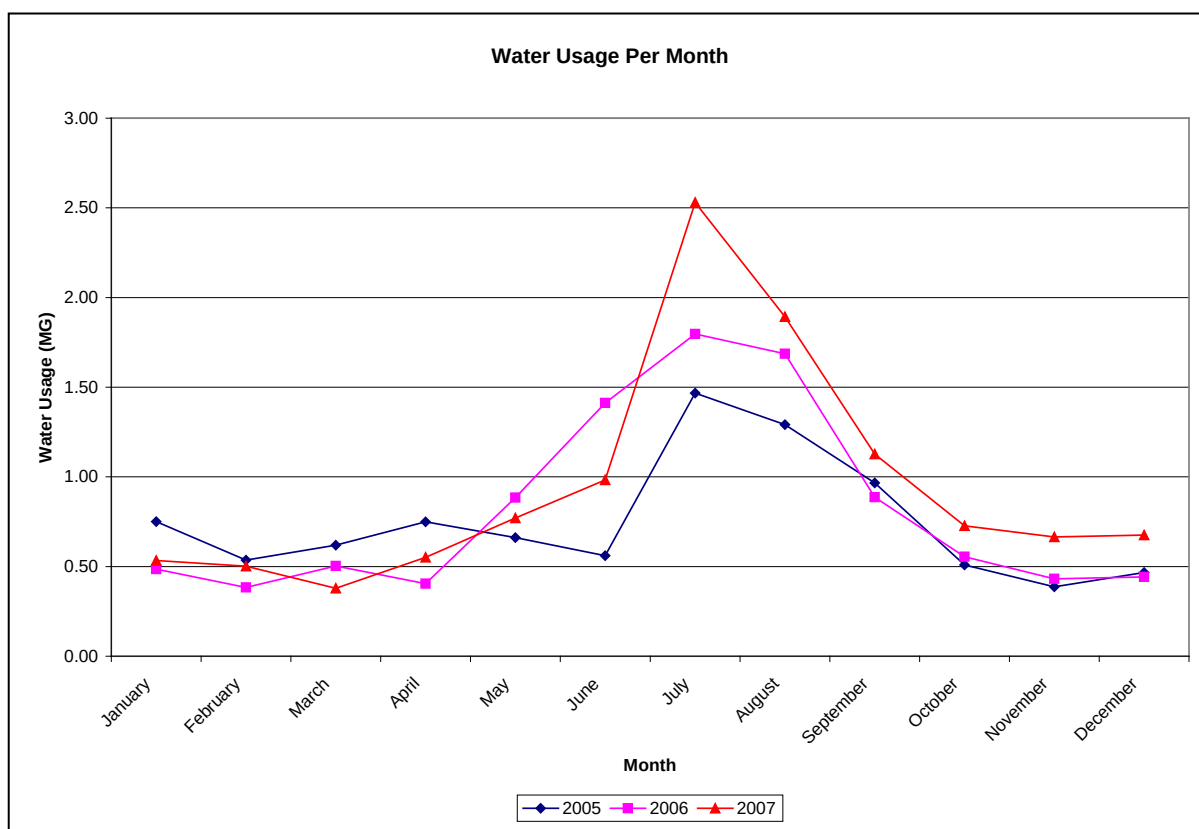
Since water production includes water that is unaccounted for, water production will provide a more accurate representative of actual water demands and will be the basis for determining the demands in the following subsections.

Average Day Demands

Just as water demands change throughout the day along with activities, demands also change throughout the week (weekends different than weekdays) and throughout the varying seasons (lawn watering in summer). Due to these changes, the average day demand considered the water production over an entire year and then estimates the average day demand based on that yearly demand. This gives a much more reliable number as it considers the fluctuations throughout the days, weeks, and months.

Data provided by the Town was summarized in Figure 3.4 to show the trends of water usage for 2005 through 2007.

Figure 3.4: Monthly Water Usage



As indicated in the figure, water usage has been on the rise over the last several years. This is primarily attributed to increased flows in the Musselshell River as the increased flows allowed the Town to lighten water restrictions during the summers of 2006 and 2007. Also noted in the chart is the low water usage during May and June of 2005. The Town received an unusually large amount of precipitation during these two months, so extra usage for things such as lawn watering was kept to a minimum.

Table 3.1 summarizes the water usage for 2007 and calculates the average daily use for the year.

Table 3.1: Average Water Usage

MONTH	TREATMENT PLANT	WELL #1	TOTAL PRODUCTION
January	407,460	126,300	533,760
February	351,480	149,900	501,380
March	288,130	91,100	379,230
April	441,550	110,200	551,750
May	649,750	121,200	770,950
June	835,610	147,500	983,110
July	2,305,750	224,300	2,530,050
August	1,734,400	158,300	1,892,700
September	1,005,440	121,600	1,127,040
October	616,270	110,700	726,970
November	552,290	112,900	665,190
December	561,210	114,000	675,210
TOTAL YEAR (gallons)	9,749,340	1,588,000	11,337,340
DAILY AVERAGE (gpd)	26,711	4,351	31,061

Based on the 2007 water usage data, the average day demand was calculated to be 31,061 gpd. Using a current equivalent population of 158 persons as determined in Section 2.6, the per capita water usage is calculated to be:

$$\begin{aligned}
 \text{Per Capita Usage} &= 31,061 \text{ gpd} / 158 \text{ capita} \\
 &= 197 \text{ gpcd}
 \end{aligned}$$

The per capita usage is slightly higher than typical metered communities but much lower than typical unmetered communities. Table 3.2 presents a comparison of water demand for some metered and unmetered communities.

Table 3.2: Comparison of Metered vs. Non-Metered Usage

COMMUNITY	POPULATION	METERED USAGE (gpcd)	NON- METERED USAGE (gpcd)
City of Fort Peck	277		425
Town of Nashua	371		366
City of Big Timber ¹	1,577	148	478
City of Livingston	7,414	177	
City of Glasgow	2,600	125	
Gardiner Water District	750	170	
AVERAGE		155	423

Meters were recently installed in Melstone for each service connection as part of the improvements completed in 2005. However, the Town has not yet begun charging based upon water usage. Thus, the system is essentially still operating as an unmetered system. The City of Harlowton operates similarly to Melstone as most services are metered but all residential and some commercial users are not charged based upon usage. A water system study conducted by Great West Engineering for the Harlowton system in 2007 found that water usage for the previous three years ranged between 190 gpcd and 244 gpcd. At 197 gpcd, Melstone is very similar to the Harlowton system. Both are slightly higher than a typical metered system but much less than a typical unmetered system.

The above table suggests that meters may account for a reduction in water usage by nearly 63%. In fact, Big Timber saw a reduction of nearly 70% in overall water usage as a result of meters. In the case of Melstone, the average day demand is already quite low. Never-the-less, the long-term impact of meters and a rate schedule based on meters should cut consumption down to approximately 150 gpcd from 197 gpcd (nearly 25% reduction).

Table 3.3 summarizes the current and projected average day demands assuming a new rate schedule is adopted by Melstone that charges based upon water usage.

Table 3.3: Projected Average Day Demands

YEAR	POPULATION	PER CAPITA DEMAND	AVERAGE DAY DEMAND	
			gpd	gpm
2006	158	150	23,700	16.5
2010	164	150	24,600	17.1
2020	182	150	27,300	19.0
2030	201	150	30,150	20.9

Since the Town is committed to a new rate schedule based upon metered usage (to go into effect in June of 2008), throughout the remainder of the report, the current average day demand will be assumed to be 23,700 gpd while the projected 2030 design average day demands will be assumed to be 30,150 gpd.

Peak Day Demands

Peak day demands or maximum day demands are important to consider as water usage varies throughout the day in addition to the month and year. The water supply should be sufficient to meet the peak day demands without using stored water. Typically, a peaking factor is used to estimate the peak day demands. A peaking factor is defined as the ratio of the peak day demand to the average day demand.

Throughout the United States, peaking factors range from 2 to 5.¹⁴ However, studies done throughout Montana and the Dakotas indicate peaking factors of 1.8 to 4.^{15,16,17,18} In general, the smaller the water supply system, the larger the peaking factor, though, metered system typically see lower peaking factors due to a conscious effort made by the users to conserve water. Also, peak days typically occur during the hottest days of the year when lawn watering is at a maximum.

¹⁴ Salvato, Joseph A. Environmental Engineering and Sanitation. John Wiley and Sons. 1982.

¹⁵ HKM Associates. Fort Totten Area Project Report. 1989.

¹⁶ HKM Associates. Rosebud Sioux Tribe Municipal, Rural and Industrial Water Needs Assessment. 1989.

¹⁷ Morrison-Maierle/CSSA. Final Engineering Report, Mni Wiconi Rural Water Supply Project. 1989.

¹⁸ De Wild Grant Reckert & Associates Company. Engineering Report for Luman-Jones Rural Water System, Mni Wiconi Rural Water Supply Project. 1992.

The Town's design population would be considered a small Montana community. In other words, a relatively high peaking factor would be anticipated. Since the Town does not pump from the treatment plant or well on a daily basis, peaking factors cannot be determined in the straightforward manner that average day demands were determined.

As noted previously, water is not pumped on a daily basis. Consequently, peak days are "inflated" as they are invariably preceded by days where no pumping occurred. The inflation can be explained due to the fact that the water added to the system on the peak days had to meet the demands of the system for that day as well as replace storage utilized during the days where no pumping occurred.

To account for the "inflated" peak days, the highest total of two consecutive days was determined and averaged for a peak day value. It should be noted that there was a very high 2-day consecutive total for July 23rd and July 24th (324,040 gallons). However, the period was preceded by one day of no pumping and two days of significantly less than average pumping. Thus, it was determined that the results were still inflated even with an average of 2 days. Instead, the second lowest 2-day total was used for calculation of the peak day demand in 2007. It should be noted that the total of the second low demand for 2007 was 229,040 gallons, which is very similar to the peak 2-day total found in 2005 and 2006 at 212,070 gallons and 214,680 gallons, respectively. Table 3.4 summarizes the consecutive peak days, the average values, and resulting peaking factor.

Table 3.4: Peaking Day Water Use

DATE	DEMAND (gallons)
7/3/2007	136,830
7/4/2007	92,210
PEAK DAY AVERAGE	114,520
AVERAGE DAY	31,061
PEAKING FACTOR	3.69

The resultant peaking factor of 3.69 is considered reasonable for a small town as it is on the higher end of the peaking factor range. It should be noted that the current peaking factor is similar to the peaking factor of 3.7 that was calculated in the 2002 PER.

It should be noted that the peaking factor of 3.7 assumes the Town is not operating as a metered system. As discussed earlier, if a metering system were used for billing, average day demands would be expected to decrease. Peak day demands also tend to decrease significantly as users are much more conscious of the water that is used because they know they are paying for each gallon of water, especially when lawn watering.

With the decrease in peak day demands due to a metered system, the peaking factor also tends to decrease slightly. Since Melstone is on the high end of peaking factors, the Town would likely see a slightly lower peaking factor once charging based upon water usage. Therefore, a peaking factor of 3.5 will be assumed for future demands of the metered system. A summary of the projected peak day demands is provided in Table 3.5.

Table 3.5: Projected Peak Day Demands

YEAR	POPULATION	AVERAGE PER CAPITA DEMAND	PEAKING FACTOR	PEAK DAY DEMAND	
				gpd	gpm
2006	158	150	3.5	82,950	57.6
2010	164	150	3.5	86,100	59.8
2020	182	150	3.5	95,550	66.4
2030	201	150	3.5	105,525	73.3

Peak Hour Demands

Just as the peak day demand is the day with the highest usage, the peak hour or peak momentary demand represents the hour with the highest usage. Peak hours typically occur in the mornings prior to work and school (when people are taking showers).

Since there is no data available to determine peak hour demands for the Town of Melstone, a peak hour peaking factor must be estimated. Peak hour peaking factors generally range from 1.6 to 2 times the peak day demand (or roughly 6 to 8 times the average day demand). To be

conservative, a peaking factor of 2.0 will be used. This results in peak hour demands as presented in Table 3.6 for the Town's water system.

Table 3.6: Projected Peak Hour Demands

YEAR	POPULATION	PEAK DAY DEMAND		PEAKING FACTOR	PEAK HOUR DEMAND
		gpd	gpm		gpm
2006	158	82,950	57.6	2.0	115.2
2010	164	86,100	59.8	2.0	119.6
2020	182	95,550	66.4	2.0	132.7
2030	201	105,525	73.3	2.0	146.6

Because the water for peak hour demand is not needed on a continual basis, any demand above the peak day demand is typically supplied from storage. As will be discussed with the evaluation of the storage, the Town has adequate capacity in their storage tank to meet the projected peak hour demands. The actual influence of peak hourly demands on the overall system will be determined through the hydraulic model, which is discussed in Section 3.3.7.

3.3.2 Water Supply

The Town of Melstone currently has two source water supplies: (1) surface water from the Musselshell River; and (2) groundwater from the Fox Hills aquifer (Well #1). In addition to Well #1 which is connected to the system, there is an additional production well owned by the Town (Well #2) that could be considered for a source water supply as well. A test well completed by the Town (Well #6T) could also be considered a potential source for ground water supply, though there are currently some concerns over ownership due to the land agreements (these will be discussed in more detail later). Each of these potential wells/sources will be discussed in greater detail below.

Musselshell River

The Town of Melstone has water rights for the Musselshell River dating back to 1914. And, until June of 2005, the Town has been entirely dependent upon the river as their source of water supply. As was discussed in detail in Section 3.2: History, the river had stopped flowing at

Melstone in multiple years for periods of a month or longer (several months in 2001 and 2002). No flow was specifically reported by the Town in 1988, 2001, 2002, 2003, and 2004.

The two closest United States Geological Survey (USGS) gauging stations are located at Musselshell and Mosby. The “Musselshell River at Musselshell, MT” gauging station is identified as #06127500 and is approximately 13 miles upstream of Melstone. The “Musselshell River at Mosby, MT” gauging station is identified as #06130500 and is approximately 35 miles downstream of Melstone. Daily mean flows were obtained from the USGS website for stream data¹⁹ for each of these gauging stations for the years 1980 through 2007.

Throughout the data, there is a clear indication that flows at Musselshell are slightly higher than the flows downstream at Mosby. This is attributable to the numerous users with water rights that draw water from the river and should be considered when analyzing the data. A similar conclusion can be made that even if there is some flow at Musselshell there will likely be less downstream at Melstone (or maybe even none). Because of the seriousness of “running” out of water supply, all flows at Musselshell that were less than 20 cfs were identified since 1980. A copy of the gauging station data for flows of less than 20 cfs is included in Appendix C for further reference (due to length, the entire data set was not included).

From the data, it can be seen that the years of low flows (< 20 cfs) for approximately one month or longer included 1985, 1988, and 2000 through 2004. River discharge at Musselshell was actually report as 0 cfs for approximately 3 months in 2001 and 2002. The Town also noted that the river had stopped flowing at Melstone for at least a month in 1988, 2003, and 2004, which is supported by the extremely low flows seen at Musselshell and no flows reported at Mosby.

After the continual problems in 2001, the Town could see that river levels were not coming back up as they should. In response, the Town had the foresight to build two emergency raw water storage ponds. The ponds were hastily built and have very steep banks. In fact, the dividing dike has since eroded away and the ponds have essentially become one storage pond. The ponds served their purpose, however, as the Town managed to survive the 2002 season until the river

¹⁹ United States Geological Survey, *Real-Time Water Data for Montana*, <http://waterdata.usgs.gov/mt/nwis/rt>.

started flowing again in October. There were just a few inches remaining the storage ponds, water from the swimming pool had been hauled to the treatment plant, and the sedimentation ponds were down to about half of their normal operating level.

In conclusion, the Musselshell River has been an unreliable source of continual water supply for the Town of Melstone. In four of the last seven years, the Musselshell River has stopped flowing for at least a month. For a couple of those years, the river actually stopped flowing for several consecutive months, resulting in a very serious threat of lack of water supply.

It is also important to note that the Town has water rights for the Musselshell River that date back to 1914. Unfortunately, there are many rights that are senior to the Town's. Thus, in a drought year such as 2002, it is technically illegal for the Town to draw water between May and October. Clearly, any alternative that would involve surface water would need to include approximately 6 months of storage to ensure that the Town remains in compliance with their water rights and will have sufficient supply to meet water demands during times that the Town cannot draw water from the river.

Well #1

Well #1 was completed on July 11, 2003 to a total depth of 820 feet. The casing is threaded schedule 40 steel, 10-inch in size from +2 feet to 25 feet below ground surface and 6-inch in size from 25 feet to 674 feet below ground surface. A screen assembly was installed from 640 feet to 820 feet below ground surface. The screen assembly consists of 2-inch diameter stainless steel screen sections and schedule 40 steel pipe. Slot screen openings are 0.020-inches from 650 to 655 feet, 695 to 735 feet, and 765 to 780 feet.

The primary water production zone is from 695 feet to 735 feet, which is part of the Fox Hills formation (to a depth of 795 feet). A 12-hour pump test was conducted by the driller, which determined a well yield of 18 gpm. A 24-hour pump test was later completed in fall of 2004, which indicated an average yield of 21.2 gpm. At any rate, the *Town of Melstone Well No. 1 Testing and Completion Report* prepared by Western Groundwater Services, LLC concludes that a design capacity of 18 gpm is most appropriate for Well #1 to maintain long-term pumping capability.

However, after pumping continually for water usage, the Town has noted that there is excessive air in the pipeline when pumping at 18 gpm. The air is likely entering the system as the well pump is trying to pump against the lower drawdown. After adjusting the flowrate within the pipeline, the Town has found that the well is much more efficient if pumping at about 15 gpm. Thus, 15 gpm will be considered the capacity of Well #1 for planning purposes within this report.

Using a capacity of 15 gpm, Well #1 is capable of providing approximately 21,600 gallons per day or 648,000 gallons per month. Comparing anticipated production with average water use presented in Table 3.1, it can be seen that Well #1 will generally be capable of meeting average day demands for November through April of each year.

For ease of comparison, water quality of each of the wells is discussed in detail in the “Water Quality” sub-section. It is worth noting that the Town does have water rights for Well #1 for 25 gpm or 27.3 acre-feet.

A copy of the construction report²⁰ (includes the well log and water quality information), testing and completion report²¹, and well lithology are included in Appendix E.

Well #2

Well #2 was completed on October 23, 2005 to a total depth of 254 feet. The well was completed using an 8-inch diameter casing and screen. Slot screen openings are 0.100-inches from 180 feet to 254 feet.

The primary water production zone is from 695 feet to 735 feet, which is part of the Fox Hills formation (to a depth of 795 feet). A 24-hour pump test was completed followed by several days of recovery. There was some difficulty maintaining the low constant rate of the test, but the average pumping rate was determined to be 11.7 gpm over the 24-hour period. However, the

²⁰ Western Groundwater Services, LLC. *Town of Melstone Well No. 1 Construction Report*. August 2003.

²¹ Western Groundwater Services, LLC. *Town of Melstone Well No. 1 Testing and Completion Report*. October 2004.

Technical Report for Melstone No. 2 Beneficial Use Permit prepared by Western Groundwater Services, LLC concludes that the rate is not considered sustainable for a period of more than one day and that a rate of 6.5 gpm should be the target rate for sustained pumping in the well. For planning purposes, it will be assumed that the well will be capable of a production of 6 gpm on a continual basis.

For ease of comparison, water quality of each of the wells is discussed in detail in the “Water Quality” sub-section. It is worth noting that the Town does have water rights for Well #2 for 11 gpm or 10.5 acre-feet.

A copy of the technical report²², which includes the well lithology and water quality results is included in Appendix E.

Well #6T

The last well constructed by the Town of Melstone was a test well, named Well 6T. The well is located approximately 10 miles west of Melstone just off of the Old Musselshell Road and was completed on December 10, 2006. The total depth of the well is 300 feet. It is steel cased and cemented to 35 feet, and then open-hole below, although a PVC liner was set in the open hole to house the pump.

Actual water entry is expected to be limited from 120 to 135 feet with most water coming from 200 to 300 feet, particularly from a soft gray sand between 200 and 260 feet. Well testing included a 24-hour drawdown test followed by a 24-hour recovery period. The average pumping rate was determined to be 85.3 gpm.

Recommendations from Mark Cunnane of Western Groundwater Services in his *Pumping Test Analysis Report* indicate the well should be designed for a rate of 65 gpm. Also, the test well would be sufficient to house permanent pumping equipment. Though, Mr. Cunnane does recommend a seven-day pumping phase and up to 21 days of recovery in order to better estimate the sustained capacity of the well.

²² Western Groundwater Services, LLC. *Technical Report for Melstone No. 2 Beneficial Use Permit*. August 2006.

A copy of the well log, testing report²³, and water quality results are included in Appendix E.

It is important to note that although this may be a potential source water supply, there are some concerns regarding use of the well. The land agreement for the test well was set up to between the land owner and the Town to originally construct a test well, and if deemed successful by the Town, the Town could later construct a production well. Though the land owner agrees that the Town has the right to construct a well on the property, there is a disagreement regarding actual use of the well. The land owner has indicated that the Town should in addition be charged a usage fee based upon actual gallons used. Such a charge is not acceptable to the Town, so the Town is instead pursuing the purchase of the land (rather than a long-term easement).

Water Quality

A sample from the Musselshell River was obtained on June 5, 2004. The results indicated a pH of 8.1 and a total dissolved solids (TD) of 2,120 mg/l. The water is definitely hard (702 mg/l) but it is worth noting that a significant source of hardness is the magnesium. Calcium was found to be 110 mg/l while magnesium was nearly as high at 103 mg/l. Sulfates were definitely high at 1,170 mg/l.

After treatment, the river water generally meets all of the state and federal water quality standards. However, there are numerous complaints during the summer when organics are high and there are taste and odor problems. In fact, the Town ranked “water quality” as Priority #2 in the 2002 Needs Assessment, behind only “water system capacity.”

The most significant problems with actual treated water quality are the turbidity levels and the disinfection by-products. The treatment plant continual struggles to meet the new maximum contaminant level (MCL) of 0.3 NTU. In fact, in the last year, many of the finished water turbidity samples were 0.29 NTU. Similarly, the total trihalomethanes (TTHMs) and haloacetic acids (HAA5s) are high and nearing the new MCLs of 0.08 mg/l and 0.060 mg/l, respectively. The plant did actually exceed the limits in 2001 but this was prior to the effective date of the

²³ Western Groundwater Services, LLC. *Town of Melstone Test Well No. 6 Pumping Test Analysis Report*. February 14, 2007.

Stage 2 Disinfection and Disinfectants By-Product Rule. More recent samples average about 0.065 mg/l TTHM and 0.045 mg/l HAA5.

In comparison to the surface water, Table 3.7 provides a summary of the water quality in each of the Town's existing wells.

It should be noted that each of the wells meets all of the MCL's and would not require any form of treatment other than disinfection. The bold numbers in the table represent constituents that exceed the SMCL. Overall, Well #6T represents a much higher water quality. Sulfates are much lower than the other wells and TDS levels are also slightly lower. Most significant though are the low levels of iron and non-detectable manganese. Well #2 in the Lance formation is clearly the poorest water quality. Manganese levels are higher than desirable and both sulfate and iron levels are high. Because the Lance well has such a low yield, the poorer water quality is not as concerning since it will be blended with the Fox Hills water.

Table 3.7: Water Quality in Melstone Wells

CONSTITUENTS	UNITS	MCL/ SMCL	WELL #1 (FOX HILLS)	WELL #2 (LANCE)	WELL #6T (FOX HILLS)
Arsenic	µg/l	0.01	ND	0.008	ND
Calcium	mg/l	NA	3	15	12
Magnesium	mg/l	NA	ND	4	8
Sodium	mg/l	NA	570	804	362
Nitrate	mg/l	10	ND	ND	ND
Iron	mg/l	0.3	0.52	0.9	0.09
Manganese	mg/l	0.05	ND	0.05	ND
Chloride	mg/l	NA	22	13	10
Sulfate	mg/l	250	757	1,250	450
Fluoride	mg/l	4.0/2.0	1.39	0.81	1.1
Total Dissolved Solids	mg/l	500	1,370	2,250	1,050
Conductivity	µmhos	NA	2,110	3,410	1,680
pH	s.u.	6.5 - 8.5	8.8	8.6	8.1

3.3.3 Source Water Protection

The Town of Melstone has a source water protection plan and delineation report that was prepared in March of 2004. At the time of the report, none of the wells were connected to the system, so the report covers only the Musselshell River as a source water supply. A separate source water protection plan was prepared for Well #1 and Well #2. The SWPP's were prepared by Western Groundwater Consultants and are included in Appendix F.

3.3.4 Water Treatment

As noted previously, the Town of Melstone is served by a package treatment plant that was installed in 1986. There have been no major improvements on the treatment plant since installation. The following sub-sections are intended to discuss treatment and individual components of the treatment plant.

A schematic of the water treatment plant was presented in Section 3.1 as Figure 3.2.

Controls

The treatment plant was originally intended to be fully automated. For example, when a differential pressure switch noted 50 inches of water head differential across the filter media, the automatic backwash system would actuate (including pneumatic valves, surface wash, and rinse cycle). Initially there was radio communication between the storage tank and the treatment plant to activate the high service pumps, and intake pumps were automatically actuated based on the level in the clearwell.

Unfortunately, within a few years of construction, most of the automated features were no longer working. Exceptions were the automatic cut-out that shuts off the high pressure pumps if the clearwell is too low and some of the backwash operations (initializing and surface wash remain manual). Lack of funding and experience prevented any of the controls from being fixed. In addition to failure of the automation in operation, the only automatic monitoring that remains functional is the turbidimeter (one reading per hour of operation). The only alarm system that functions is an audible alarm at the plant that activates to signal a loss in power. Due to the remote location of the plant this alarm is not heard until the operator is in the vicinity of the plant and there are no nearby neighbors that would be alerted.

There is some degree of corrosion inside the control boxes. However, since the controls began failing within two years of plant construction, the original failures were more likely due to faulty controls, rather than from corrosion.

Controls-Related O&M

The lack of controls or remote alarms requires the operator to be on-site whenever the plant is operating (as required by DEQ). The operator does not have any indicator of the level in the water storage tank other than to check the system pressure. When system pressures are low, the operator starts the high service pumps to pump water out of the clearwell. The operator concurrently activates the process pumps and begins the water production process. When the settling pond is down, the operator activates the low service pumps at the intake.

The Montana Department of Environmental Quality has issued a policy statement on pre-engineered water treatment plants noting that “*full-time operators are necessary, except where the reviewing authority has approved an automation plan.*” In addition, the policy notes that all critical features in the facility would need to be electronically monitored, have alarms, and be capable of operation atomically or off-site via the control system.²⁴ The Melstone water treatment plant has never had such a SCADA system.

The installation of a control system would be estimated to save the Town approximately 10 to 15 man-hours on the average per week. The operator would still need to take daily readings, but full automation would limit the time required at the plant site to only about 1 hour per day on non-backwash and non-cleaning days. The existing hourly rate of the operator is actually very low for a surface water treatment plant operator. Labor costs could rise very significantly in the future if an out-of-town operator had to be recruited.

Chemical Mixing, Flocculation, and Clarifying

²⁴ Montana Department of Environmental Quality. *Circular DEQ 1 Standards for Water Works*. February 24, 2006 Edition.

There are two flocculator trains and one mixer for the treatment system. The Town uses alum and a cationic polymer for coagulation. The alum tank is approximately 260 gallons (filled approximately every 3 months), while the polymer tank is only about 10 gallons (checked every two days). The chemical storage tanks do not have protective curbing in case of spill (DEQ-1 5.1.10.i)

Alum is provided in liquid form, though the polymer requires mixing (there are no automatic mixers). The chemical pumps have maximum capacities of 240 gpd for alum and 108 gpd for polymer. Based on recommended mixes, the maximum feed concentration is 50 ppm for alum and 5 ppm for polymer. The operator has only a few times exceeded 40 ppm for alum dosage and only rarely exceeds 2 ppm for polymer. The Town uses a cationic-type polymer (this type is generally the most effective coagulant for algae and bacteria).

Both static mixer and the flocculation processes are passive (the flocculator is called “hydraulic-type” by the manufacturer). The floc is achieved by moving the water through a series of three vessels and pipes (compartments), thereby providing slow agitation movement by varying velocities in different stages of floc formation (in lieu of providing mechanical paddles).

The static mixer is designed for a maximum flow of 200 gpm ($G=2543$, $G_t = 2220$). Actual mixing may be hampered by the lower flows (lower velocities) currently practiced by the Town, since the main action that creates mixing is turbulence induced by the velocity and the static tripping mechanism in the mixer.

The total detention time in the flocculation unit is recommended as 20 minutes, though this has been increased to limit the flow to the filters (see discussion in the filters section). The actual detention is about 40% longer than the design rate of 100 gpm (the design rate assumes one filter in operation at full capacity of 100 gpm, though the system is normally operated with both filters operating at 30 gpm each). Table 3.8 presents the breaking velocities and velocity gradient G for the three compartments.

The clarifier units each have 40 square feet (sf) of surface area and a volume of 300 cubic feet (2,244 gallons). The detention time at the design flow of 100 gpm is 22 minutes, though the system is generally limited to 30 gpm per filter in practical operations or 60 gpm total for a net

actual detention time of 37 minutes in practice. The clarifier includes tube settlers designed for an upflow rate of 2.5 gpm/sf. Circular DEQ-1, Section 4.1.6.1.d stipulates a maximum rate of 2 gpm/sf, unless a system can be shown to operate effectively at a higher rate, which has not been shown.

Table 3.8: Breaking Velocity and Gradient

Compartment	Breaking Velocity (ft/s)	Velocity Gradient (G)
#1	5.4	50
#2	2.3	24
#3	1.3	15

Chemical Mixing, Flocculation, Clarifying O&M

The naturally very alkaline water of the Musselshell allows the Town to use alum without worrying about pH. The typical inlet water pH is 8.5. The natural acidity of the alum drops the pH to a range of about 6.9 to 7.8, which is within the optimum range for coagulation with alum (6.0 to 7.8) and acceptable for a finished water pH. The pH of the finished water is typically about 7.5. The plant was originally designed with the capacity to add soda ash. However, due to natural pH control, there has not been any need to add soda ash.

Optimum amounts of alum and polymer vary with the temperature and turbidity of the raw water. The polymer dosages generally range from 1 to 2 ppm while alum amounts ranged from 15 to 48 ppm. The operator has found that during low inlet water NTU (under 10), the alum dosage can be kept to approximately 20 ppm with higher polymer dosages of 1.6 to 2.0 ppm. During higher inlet turbidities (over 25) the floc is best established using higher alum dosages with lower polymer of 1.0 to 1.5 ppm.

More polymer was required in 2001 (up to 3.5 ppm). This was likely due to the ability of the cationic polymer to coagulate organic materials. It is also attributed to the fact that the Town was using only stagnate pooled water from the riverbed in August and September of 2001, and the river did not “clean” itself of the organics until late fall (rivers are typically high in organics in fall anyway due to leaves dropping, but this was particularly bad along the Musselshell where

there was no moving water in early fall and very little moving water throughout the remainder of the season). The water in the Musselshell had demonstrated notable odors from decaying matter in the stagnant pools that remained after the river stopped flowing.

In the fall of 2002, the Town was using water that had been stored in the new storage pond. While the pond did have significant algae, odor would indicate that the pond water remained superior to the quality of the stagnated water pooled in the riverbed. The water in the new pond was not susceptible to organic loading from riparian life. Part of the reason for the large amount of organic material in the stagnant pools may have been the large decaying mussels and waste from animals feeding on the easily accessible mussels and naturally decaying leaves, etc.

The operator is trained and capable in using jar tests when determining the best alum and polymer dosing. The operator mixes dry alum and polymer solutions with water on a weekly basis. Guidelines for mixing are included with the Operations and Maintenance (O&M) manual that is maintained at the plant. The floc basins and pipes are cleaned weekly during the summer. This frequency was determined based on experience. When the waters are warm, the floc system becomes very odorous within a week of washing. Water used in washing is sent to the recycle pond (to be discussed in later sections). Sludge from the clarifier is noted as particularly odorous during summer months. Sludge is wasted to the backwash recycling ponds, as is the wash-water from the flocculators and clarifier.

Filters

The Melstone water treatment plant has two filters. These filters were designed for a net flow of 100 gpm through each 25 square-foot filter (4 gpm/sf). Though, the operator generally has to keep flow down to 30 gpm per filter in order to meet the new turbidity requirement of 0.3 NTU. Even with lower flow rates, the plant still has an effluent of as high as 0.25 to 0.29 NTU on a regular basis.

The manufacturer's literature notes that the model number is 100-TSA-HF by Aquafloc. The filters include 24 inches of anthracite and 12 inches of 0.45 – 0.55 mm sand with 17 inches of gravel support.

Filters O&M

Filters are now backwashed based on turbidity readings, as there is no differential pressure monitoring to indicate headloss across the filter media. This practice may be stressing the filters during times of cleaner intake water as the turbidity may be very low coming into the plant. Though there could be some bacteria breaking through an over-loaded filter, this condition would not necessarily be signaled by high turbidities. The use of a differential pressure switch is the only reliable means of determining when a filter is becoming overloaded. A differential pressure switch should be a high priority for any plant rehabilitation.

Filters are typically backwashed for about 8 minutes in accordance with the manufacturer's recommendations. The manufacturer recommends 15 to 20 gpm/sf or 375 to 500 gpm per filter, and the operator generally uses 400 gpm in practice. The operator manually provides surface wash during the backwash process. Backwash and rinse water are sent to a separate pond and eventually recycled to the sedimentation pond. With the exception of the surface wash, the backwash process does run automatically once the operator manually initiates the process.

In 2000, the Town replaced the anthracite layer of the filters. Since no mud balls were found in the media, the media was not replaced. The media is believed to be the same as installed with the original plant.

Turbidities have been below the new limit of 0.3 NTU. However, the limit is very difficult to meet. Throughout the summer months, turbidity levels rarely drop below 0.25 NTU and reach as high as 0.29 NTU. Even throughout the winter months, turbidity generally ranges between 0.15 and 0.25 NTU.

It is worth noting that turbidity levels prior to 2002 reached as high as 0.49 NTU on several occasions. When the Town began using the water from the pond, the turbidity levels dropped to 0.2 to 0.3 NTU, likely due to additional settling and enhanced flocculation due to the higher temperature of the pond water. The present practice of limiting the flow to 30 gpm for both filters (total production rate of 60 gpm) in order to meet turbidity requirements must be continued.

Total operator time for preparing for and carrying out backwashing is generally about 2 hours per week.

Pumps

All pumps are the original pumps that came with the water treatment plant in 1986.

There are two raw water pumps from the intake to the sedimentation pond. These are each 10 HP (originally planned a 7.5 HP but was upsized during the submittal phase), 230 volt, 3 phase, rated at 250 gpm for 45 feet TDH. These are Hydromatic submersible pumps, model S4MX, and are capable of pumping 3" solids. These pumps are typically used for sewer service and are ideal for raw water pumping at low heads.

There are two process pumps, each 5 HP, 230 volt, 3 phase, rated at 100 gpm at 38 feet TDH. These are submersible pumps, similar to the raw water pumps. The pumps are Hydromatic model S4F.

There are two backwash pumps at 1,800 RPM, 7.5 HP each, 230 volt, 3 phase, rated at 500 gpm at 33 ft TDH. These are Ingersoll-Rand vertical turbine pumps, model 10KKH.

There are two high service pumps at 1,760 RPM, 10 HP each, 230 volt, 3 phase, rated at 100 gpm each at 235 ft TDH. These pumps are similar to the backwash pumps and are vertical turbines by Ingersoll-Rand. The model number for the high service pumps is 6KKH.

The Town has also had to use two fire pumps to draw water out of the river for filling the newly constructed pond. These pumps move water from the river to the new pond and then are again used to pump from the new pond over to the recycle pond, which is where the process pumps pump out of. It is recommended that the process pumps instead draw directly from the sedimentation pond and that the water from the new upground raw water pond accordingly be pumped into the sedimentation pond when the river is no longer flowing.

Pumps O&M

The operator is capable of providing minor repairs to pumps including replacement of impellers. All the pumps are relatively small. The O&M manual at the plant is very comprehensive in regard to O&M (the manual is about 4 inches in thickness). In consideration of space and in order to avoid repetition, specific O&M functions are not repeated in this PER.

Flows are controlled by restricting flow through the isolation valve on the discharge for each pump. As discussed previously, the actual flow through the plant is limited to only about 60 gpm with both filters operating (due to the limitation of the plant to meet turbidity requirements). Thus, only one process pump needs to be in operation at any given time and it has to be restricted manually using the isolation valve.

All pumps are activated manually as the control system has completely failed (it has not been in operation since the first few years that the plant was open). The raw water pump is hand operated as is the high service pump. When the water level in the sedimentation pond is low, the operator activates the raw water pump (there is about 30 days storage in the sedimentation pond, so this is not a critical part of the train). The high service pump is activated when system pressure is noted as low.

Maintenance schedules and procedures are documented in the plant's extensive O&M manual.

See the discussion on controls for additional information on operations of the pumps and estimates of operator hours involved in control of the pumping systems.

Clearwell and Contact Time

To meet the current requirement of 3-log of Giardia deactivation, a 2.5-log deactivation is credited for the filtration plant, leaving 0.5 to be met through contact time. The required CT varies based on principally water temperature and pH, but ranges consistently between 10 and 20 min-ppm during warmer months, and up to just over 40 during the colder months.

The finished water runs to an 18,500 gallon clearwell located below the plant floor. The DEQ correction factor for baffling is 0.3 giving an effective volume of 5,500 gallons for contact time (CT) calculations. The high service pumps that pump from the clearwell to the Town have a maximum capacity of approximately 140 gpm with both operating. Chlorine levels of the finished water are consistently above 1 ppm. The calculated CT minimum is calculated accordingly at $0.3 \times 18,500 \times 1 \text{ ppm} / 140 \text{ gpm} = 40 \text{ ppm-min}$.

After reviewing 2 years of data it is noted that:

- The use of two pumps at once is rare,

- The chlorine levels in the finished water is typically 1.5 ppm,
- The CT calculations do not include the contact in the ½ mile of pipe prior to reaching the nearest service, and
- The typical CT minimum required during high usage months (summer) is usually below 20 (principally due to higher water temperatures).

According to the above, CTs are easily met. After reviewing 2 years of operator's logs it was found that the required CTs have always been met, before even including contact time in the pipeline prior to the first service.

There does exist an automatic level control that shuts off the high pressure pumps if the clearwell is too low.

Chlorination System

The Town provided disinfection via a gas chlorination system until recently. However, in 2004, the Town installed a new liquid chlorination system. Disinfection is now provided by sodium hypochlorite. The Town has a backup booster pump and has spill protection for the hypochlorite tank. The overall chlorination system is in good condition and meets all regulations of Circular DEQ-1.

Chlorination System O&M

The manufacturer's literature calls for prechlorination. Although the literature states "post chlorination should not be relied on for the total chlorination of the system," the Town only chlorinates treated water (as it enters the clearwell). The current operator notes that this was simply how she was instructed to do the chlorination. For whatever reason, the Town decided not to prechlorinate. The avoidance of prechlorination is actually a very good practice as it helps keep down disinfection byproducts by removing as much organic material as possible prior to chlorination.

Sedimentation Pond

A single sedimentation pond is located just north of the plant. Raw water is pumped up to the pond via the intake pumps. The engineer measured the circumference of the pond, and after

determining the average radius, the engineer estimated that the pond has an area of approximately 1 acre. The deepest part of the pond measured by the Town was found to be about 5 feet (the shallowness of the pond allows for greater settling), and the average depth is estimated at 3.5 feet. The total capacity of the pond is estimated at 1.14 million gallons.

Water from the sedimentation pond will flow by gravity to the recycle ponds, then may be pumped by the process pumps.

Sedimentation Pond—O&M

Very little O&M is required for the sedimentation pond, provided the water does not stagnate. The engineer noted that there were very large carp living in the pond. This will increase the organic loading in the pond, but is not necessarily detrimental to the treatment process. Through discussion with the DEQ the existence of these fish in the pond is not considered a significant threat.²⁵

The Town does need to maintain the banks of the pond and some erosion is evident on the eastern side of the pond where falling soil has filled in the pond bottom to where a large section is only 1 to 2 feet in depth. The Town should dredge out this section and provide rip-rap or other stabilization to the eastern side of the pond where wind/wave damage is extensive.

The water in the sedimentation pond should not be considered as storage. Any water taken out of the pond must be replaced by additional raw water, otherwise the volume and cross-sectional area of the pond decreases, and sedimentation is made less effective.

The Operator typically cuts the grass around the pond twice a year, requiring about 10 hours per year of operator time.

Backwash Recycling/Recycle Pond

The backwash recycling system poses a very serious concern. The way the system is configured, water flows from the large sedimentation pond, down to the “recycling” ponds. The process

²⁵ Burns, Jerry. Personal Correspondence with Patrick Murtagh on October 11, 2002.

pumps pump the mixed recycle and “new” water from the sedimentation pond out of the recycling ponds. As noted earlier, both the backwash and the washing of the flocculation system are sent to a recycle pond as is all alum sludge from the clarifiers. As currently configured, and necessitated due to the elevations of the two recycle ponds, it is easy to short-circuit water from the backwash directly back to the plant with very little dilution. The recycle ponds are small with a capacity of only about 30,000 to 40,000 gallons total.

It is recommended that the water from the recycling pond be routed to the main pre-sedimentation basin to avoid short-circuiting and allow for greater settling of the wasted floc removed by the filters as well as longer settling time for the sludge wasted from the clarifier.

Backwash Recycling/Recycle Pond—O&M

The Operator typically cuts the grass around the pond twice a year, requiring about 10 hours per year of operator time. The banks do not have any stabilization mechanism and the bottom has not been dredged perhaps since the pond was first constructed.

The recycling system does not meet the requirements of the Filter Backwash Recycling Rule (FBRR) in that the water does not go through all plant process. All recycled water does again undergo full treatment of coagulation, flocculation, sedimentation and filtration, but does not go to the presettling basin to avoid short-circuiting. A more detailed discussion of the FBRR is presented in Chapter 5.

Raw Water Storage Pond

Circular DEQ-1 considers an off-stream raw water storage reservoir to be “a facility into which water is pumped during periods of good quality and high stream flow for future release to treatment facilities.” The emergency raw water storage ponds serve exactly that purpose and according to Section 3.1.4.3,

...must be constructed to assure that

- a. water quality is protected by controlling runoff into the reservoir,*
- b. dikes are structurally sound and protected against wave action and erosion,*
- c. intake structures and devices meet requirements of Section 3.1.4.1,*

- d. point of influent flow is separated from the point of withdrawal, and
- e. separate pipes are provided for influent to an effluent from the reservoir.

Only item (a) above is met by the existing emergency storage system. The dikes (b) are very steep, approximately 1:1 slope with no protection of the weak clay soils from wind and erosion. The clay walls have begun sloughing in considerably since they were formed. Figure 3.5 shows how the steep walls began to cave in only 6 months



Figure 3.5: Emergency Storage Pond

after construction. Accordingly, the capacity is currently only about 75% of the original volume. There is no intake structure or piping. All filling of the pond is done using pumps and fire hose, with all transfer of water from the pond being made to the original sedimentation pond using the same pumps and hoses. As can be seen from Figure 3.6 taken in late September 2002, algae growth is significant by the end of summer.

In 1988 Morrison Maierle recommended the emergency construction of the pond as a potential means of guarding against a total loss of water.²⁶ Fortunately, the crisis of 1988 was alleviated by above-average rainfall in September of that year. The estimated cost of the pond in 1988 was \$363,811.

After the river dried up for the months of August and early September of 2001, the Town decided to construct a raw water pond. The pond was excavated by a local contractor in early 2002, though there was no design for the pond. The soils in the area were found to be fatty clays for the first 15 to 25 feet with sand below that point. The excavator was aware of this and was careful not to enter the sand layers. Although the Town was able to provide a temporary storage

²⁶ Morrison-Maierle, Inc. *Applications for Emergency Funding to the Department of Natural Resources and Conservation for the Purpose of Developing an Alternative Water Supply to Alleviate the Water Crises in the Town of Melstone, Montana*. September 1988.

facility at a cost of under \$30,000, the cost for a permanent raw water storage pond would likely be closer to the estimate provided by Morrison Maierle in 1988.

There were originally two ponds constructed with a thin divider wall that has since sloughed. The pond is of irregular shape, which was measured by the engineer using a walking meter. It would appear that the pond has a total area of approximately $\frac{2}{3}$ rd of an acre. The maximum depth of the pond is approximately 12 feet. Matt Userellio of the DEQ visited the site in August and discussed the size with board member Corky Saunders, who estimated the area at approximately 1 acre. The DEQ calculates that the total storage is approximately 2,000,000 gallons after accounting for wall slopes and freeboard. Any long-term use of the pond would require reconstruction of the walls (with expansion to provide reasonable slopes such as 3:1) and dikes and possibly lining of the pond.

The new raw water storage pond was capable of carrying the Town through August, September, and October of 2002 (although the sedimentation pond was also partly drawn down and water from the swimming pool had been hauled to the treatment plant). At the end of October, the river began flowing again just as the last of the water from the pond was being used. There were only inches remaining in the new pond, which was becoming extremely difficult to pump. There did remain approximately three feet of water in the sedimentation pond.

The fact that the pond is deep is beneficial in regard to holding down the algae growth. The quality of the impounded water was far superior to the water in the stagnant pools in the river. This was evident both by odor comparison and by comparing the decreased amount of polymer and alum required for treatment of the stagnated pooled water versus the water from the storage pond.

Both sources contained high organics. Although the Town did not use prechlorination and was meeting the turbidity requirements, a sampling for TTHMs on September 18, 2002 demonstrated that the Town's water had a total trihalomethane level of 127 mg/l, well above the MCL of 80 (which went into effect in 2004 for systems serving under 500 persons). It is important to note that the high TTHMs occurred when the system was meeting the NTU requirements and the plant was not prechlorinating.

If the storage pond was to be used again or if the Town again had to rely on stagnated water from the river, it would be necessary to control the organics. Reduction in the TTHM production might be achieved through the control of algae growth in the pond. Algae could be controlled through the use of copper sulfate or an algaecide.

Upland Raw Water Storage Pond—O&M

There has been considerable sloughing due to the steep slopes and the south-most dike has sloughed off to the point where the pond's volume is likely limited to about 70% of its original capacity.

The pond was not constructed with 3:1 slopes as would be expected, but appear to be 1:1, at best. This sharp cutting was done in order to maximize the amount of storage, noting that this was to be a temporary solution. Until the pond is reconstructed and stabilized, the slopes will continue to slough. Stabilization of the banks is actually more a question of reconstruction than O&M.

The high TTHMs found within the treated water from the storage pond does cause concern, however, it is the opinion of the engineer and operator that the TTHM level would be even higher if the water from the stagnant pools in the river were used since the river had odor and required much more polymer to keep turbidities down. The Town avoids pre-chlorination to help keep TTHMs down. However, to meet the new DPB rule, the Town may need to find another source or install some means of destroying the organic materials. It is recommended that the Town begin providing some form of algae control to the pond to help minimize organic materials. The added treatment would need to be tested to determine if it would work. If it was added, it would naturally involve additional O&M cost.

One other item to be considered in regard to both the upground reservoir and the large sedimentation pond is that each is susceptible to tampering. While Melstone would not appear to represent a prime target for terrorists, the open and unprotected raw water does provide an easy conduit for chemical or biological tampering.

Jerry Burns of the DEQ has indicated that if water is stored in the pond, it cannot later be released into the river without a discharge permit. This is due to the fact that the water quality and temperature will be changed from that of the actual river water. Thus, if upground reservoirs

are to be used at all, they must be used constantly to avoid stagnation during non-drought years. Pumping the water to the Town's lagoons would not be an option as the DEQ has recently cited the Town for leakage at those lagoons.

3.3.5 Water Storage

The Town's finished water storage consists of a single bolted-steel water storage tank. The tank is located at ground level on a natural ridge just north of town and has a capacity of approximately 180,000 gallons. The tank appears to be in overall good condition, though, as noted in the 2002 PER and last DEQ sanitary survey, the tank is in need of painting.

The actual base elevation of the tank was verified through pressure readings in 2002. The tank was found to be about 15 feet lower than originally designed for (also checked with GPS reading) resulting in a base elevation of approximately 3,050 feet and a top elevation of approximately 3,080 feet.

Based on the field measurements, the elevation of the tank was found to be sufficient to meet the recommended minimum pressure of 35 psi in the distribution system. Pressures in-town ranged from a low of about 39 psi (low tank level, highest elevation home) to a high of about 75 psi (tank full, lowest elevation home). These ranges are ideal and there is no need to consider adding additional pressure zones.

The 2002 PER also analyzed the size of the storage tank. At the time the 2002 PER was written, the state did not have a suggested method for sizing water storage. The 2002 PER based storage calculations on one method commonly used by engineers, which included the storage requirements of operational storage, emergency storage, and fire flow storage combined. Using this method, the existing storage tank was considered sufficient in size in every scenario except the high growth with no meters. Since the Town has installed meters, the storage tank would be considered sufficiently sized based upon this detailed method of storage sizing.

In February 2006, the Montana Department of Environmental Quality (DEQ) revised its standards for waterworks and published a new "Circular DEQ 1 Standards for Water Works." Changes specifically affecting sizing of the water storage tank for Melstone include:

Circular DEQ 1

7.0.1.b

The minimum allowable storage must be equal to the average daily demand for a 24-hour period plus fire flow demand where fire protection is provided. A Storage Sizing Engineering Analysis must support any deviation requests from this standard...

Circular DEQ 1

7.0.1.d

Excessive storage capacity should be avoided to prevent water quality deterioration and potential freezing problems.

As a result of the new standards, the size of the storage tank will be re-evaluated using the new design criteria. As noted above, the total minimum storage would be the average day demand plus fire flow storage. Although the minimum storage capacity provides a good guideline, it is also important to consider the impacts of over-design. In general, it is poor engineering design to provide excessive storage if there is not sufficient turnover to prevent water quality deterioration and freezing problems.

The following sub-sections will provide an analysis for determining the total amount of fire flow storage that would be required for Melstone.

Fire Flow Storage

While there is no legal requirement to provide fire protection through the water distribution system, it is strongly advised. As suggested by AWWA:

Fire protection through the water system reduces fire insurance rates, through more importantly, it protects the tax base from destruction from fire, preserves jobs, and most importantly preserves human life and reduces human suffering.

Needed fire flow is typically based on construction material, use of the building, size of the building, and distance between buildings. Melstone is comprised of mostly residential dwellings with some small businesses, a school, and the Civic Center. The Insurance Service Office (ISO) was contacted in 2002 to obtain any calculated needed fire flows (NFF) and to find out the rating of the Town in terms of fire-fighting capacity. It was discovered that there has never been any

NFF calculations, and the ISO rates the Town a “10”. This is the rating given to a Town with no recognized fire protection system.

Based on size and use, the school would present the greatest need for fire protection. A recent PER for the City of Harlowton determined a NFF of 3,000 gpm for each of their schools. Other PER’s have found similar NFF for similarly sized schools. Therefore, the NFF for the Melstone School is estimated at be 3,000 gpm.

In order to calculate the actual gallons of fire flow storage required, the duration of the fire event must be determined. Both the AWWA and Uniform Fire Code have methods for determining durations with slightly different flows. The durations and flows are presented in Table 3.9 below.

Table 3.9: Duration of Fire Event

DURATION (hr)	NEEDED FIRE FLOW	
	AWWA (gpm)	Uniform Fire Code (gpm)
2	Less than 2,500	Less than 2,875
3	3,000 - 3,500	2,875 - 3,875
4	4,000 - 12,000	More than 3,875

Using either the AWWA or the Uniform Fire Code method, the duration of a 3,000 gpm fire would be 3 hours. The actual needed fire volume requirement can then be calculated from the NFF as follows:

$$\begin{aligned}
 \text{Needed Fire Volume} &= 3,000 \text{ gpm} \times 3 \text{ hours} \times 60 \text{ min/hr} \\
 &= 540,000 \text{ gallons}
 \end{aligned}$$

Because fire flow storage can be significant and total volume of storage is what drives the cost of a storage tank, it is prudent to consider ways of decreasing the total amount of storage needed such as sprinklers. Other factors to be considered are the Town’s ability to fight a fire. As was noted the 2002 PER, the Town’s Insurance Service Office (ISO) currently rates the Town of

Melstone as a “10” for fire-fighting capacity. This is the lowest rating possible and is given to a Town with no recognized fire protection system.

The NFPA Uniform Fire Code has been adopted by Montana and states that, “A reduction in required fire flow of 50 percent, as approved, shall be permitted when the building is provided with an approved automatic sprinkler systems.” Decreasing the needed fire flow by half at the school would result in a 1,500 gpm fire for a 2 hour duration (rather than 3 hours). The reduced fire volume requirement can then be calculated as follows:

$$\begin{aligned}\text{Reduced Needed Fire Volume} &= 1,500 \text{ gpm} \times 2 \text{ hours} \times 60 \text{ min/hr} \\ &= 180,000 \text{ gallons}\end{aligned}$$

In order to reduce the needed fire volume by 360,000 gallons (from 540,000 gallons to 180,000 gallons), sprinklers would need to be provided on any buildings requiring a fire flow of 1,500 gpm or greater. Obviously, the school would require sprinklers. The total building area of the school has been estimated at 30,000 square feet. In the 2002 PER, an estimate to retrofit building with sprinklers was provided. Considering the significant cost increases and inflation since that time, the cost to retrofit will be inflated to \$2.00 per square foot. Thus, the cost to sprinkler the school would amount to \$60,000. Other buildings that might need sprinklers would be the Community Center and Jake’s Garage. These buildings are considerably smaller than the school, and it is estimated that they could be retrofitted for approximately \$35,000. Thus, the total cost for providing sprinklers is estimated at \$95,000.

In comparison, the cost for providing additional storage would be dependent upon the type of storage used. A ground storage tank would be the least costly alternative for storage. Based upon recent projects and experience, it can be assumed that the cost for the storage and piping would be \$1.50 to \$2.00 per gallon. Therefore, the costs to provide the additional storage for increased fire protection would be estimated at \$540,000 to \$720,000.

Clearly, it is more economical to sprinkler a few buildings than to provide additional storage capacity. The sprinklers actually provide greater fire protection as they would activate immediately. This is important as the first five minutes of a fire are generally the most critical. Furthermore, providing fire suppression sprinklers at the School and Community Center may be

eligible for various grant programs. Therefore, a total fire flow storage volume of 180,000 gallons will be considered for design purposes.

Storage Summary

According to the new DEQ criteria, total water storage should be based upon an average day demand plus fire flow storage. Fire flow was calculated in the previous section to be 180,000 gallons and the projected average day demand was determined to be 30,150 gallons per Table 3.3 in Section 3.3.2. Thus, the total amount of storage required can easily be calculated as follows:

$$\begin{aligned}\text{Total Storage} &= \text{Fire Flow} + \text{Average Day Demand} \\ &= 180,000 \text{ gallons} + 30,150 \text{ gallons} \\ &= 210,150 \text{ gallons}\end{aligned}$$

The Town's existing storage tank is approximately 180,000 gallons so is just shy of the total required storage. However, before recommending additional storage, it is important to consider the capabilities of the fire department. Currently, the fire department has only one pumper truck capable of pumping 1,000 gpm and only six qualified volunteers capable of running the truck. Tim DeJaegher, former fire chief, has noted that although the volunteer force consists of 16 individuals, typically only four to six show up at any given time. Even if the Town had additional pumper trucks, it is entirely possible that there may not be a large enough crew to utilize the entire needed fire flow. In addition, costs for a new pumper truck are estimated at over \$300,000 and the fire department does not have funds to purchase such equipment. Therefore, it would be imprudent to recommend additional storage until the fire department has additional capacity. Therefore, the Town's water storage tank is considered adequate to meet the average day demand plus total usable fire flow storage.

3.3.6 Pump Stations and Other Infrastructure

The Town of Melstone does not have any pumping stations, per se, associated with their water system. All pumps are associated with their wells and/or treatment plant. Therefore, the reader is referenced to the water supply and water treatment sections or Sections 3.3.2 and 3.3.4, respectively.

3.3.7 Distribution System

As noted previously, the Town replaced nearly all of its distribution system piping with new 6-inch and 8-inch PVC mains in 1988. Figure 3.1 presented earlier in Section 3.1 provides a map of the distribution system.

With the exception of a few leaking hydrants, the operator has noted that there have been very few major leaks or main breaks in the system within recent years. Though, it is important to note that the Town was required to replace the old main from the water treatment plant to the highway due to a leak. Otherwise, the Operator and Town Council were not able to recall any other major piping system repairs (other than for hydrants) that were completed within the past decade.

In order to analyze the adequacy of the distribution system it was necessary to create a hydraulic model. The model chosen was CyberNet, by Haestad Methods. Like most hydraulic models, CyberNet incorporates the hydraulic calculation capabilities of the KY-Pipe, first introduced by Don Woods at the University of Kentucky in the 1960s.

The first step in creating the model was to lay out the network based on as-built drawings, assuming a Hazen-Williams Friction Coefficient of 150 for the PVC pipe installed in 1988 and a friction value of 130 for the few older 4-inch PVC mains, and 140 for the older 6-inch PVC main from the plant to Town. Next, tests were conducted on the actual piping system in the field. A series of hydrant tests were conducted by ME&A in cooperation with HKM Engineering on November 11, 2002 (results in the Appendices). A flow-meter was used to measure flow while pressure was measured at the hydrant being tested and at a remote hydrant. One high service pump was pumping at the water treatment plant and the tank was approximately $\frac{3}{4}$ full for the testing. The amount of water used during the tests did not appreciably change the level in the tank since the test was done for only a few minutes at each hydrant.

The results of the test matched well with the results predicted by the hydraulic model (to within 2 psi for the flowing hydrant pressures and the remote pressures), with the exception of the hydrant by the school. The hydrant at the school showed a greater pressure drop than anticipated by the model by about 5 psi. It was found that if the model simulated a closed valve on one side of the loop, that the model would match the field test to within 1 psi. The valve was later determined to have been left closed.

Although nearly all mains were replaced in 1988, none of the service lines were replaced. This is a concern since the soils are clay and likely corrosive. Galvanized service lines may be very corroded and leaking. There were a few complaints at isolated households of “low” pressures in locations where the computer model predicted pressures in the range of 35 to 75 psi. The low pressures were assumed to be as a result of failing service lines or faulty curb stops since the mains were found to be in excellent condition. However, along with the meter project, the Town was able to also replace a majority of the faulty or leaking curb stops.

Overall, the distribution system model demonstrated that the system could easily meet peak day demands and peak moment demands under all conditions without noticeable loss of pressure anywhere in the system, even when the source was shut off (using the tank as the sole source of water).

The limitations of the distribution system lie in its inability to meet all fire demands, unless sprinklers are used at the largest buildings. This was discussed earlier in Section 3.3.5. The following section will further discuss fire protection after considering both storage and piping.

Fire Flows

As discussed in Section 3.3.5, the ISO does not recognize the Town as having any fire protection system. Section 3.3.5 demonstrated that it would be far less costly to provide sprinklers at the school, Community Center, and Jake’s Garage, than to provide the additional storage necessary for larger needed fire flows.

Regardless of the above, it was deemed best to study the distribution system in greater detail to ascertain what piping improvements would be necessary to deliver the needed fire flow to the school if sprinklers were not used. It should be noted that this would also require the fire department to upsize equipment to handle a 3,000 gpm fire, and the Town to increase the size of their storage tank. A series of scenarios were made in the water model to find exactly what minimum amount of additional piping would be required to bring 3,000 gpm to the school.

The simulations included:

- 10-inch main from the tank to both hydrants near the school
- 8-inch main from the tank to both hydrants near the school

- 10-inch main from the tank to the first hydrant near the school
- 8-inch main from the tank to the first hydrant near the school

It was determined that a 1,850 foot 8-inch main to the first hydrant could allow the tank to provide 3,000 gpm to the school and hold at least a 19 psi residual pressure throughout the system. However, as mentioned previously, even before considering the cost of the pipeline, sprinklers would offer a far better solution to protecting the school.

The locations of the Community Center and Jake's Garage are at lower elevations (hydrants at nodes 1502 and 1529, respectively). These have hydrants nearby with capacities of 1,557 gpm and 1,859 gpm, respectively. Although the needed fire flow is unknown for the two buildings, each building is considerably smaller than the school, so these flows may well be sufficient.

Again, the limiting factor for fire flow is the storage volume of the tank and the capacity of the fire department (1,000 gpm from the pumper). Considering that the Town has sufficient storage capacity and the distribution system is adequate to fight a fire at 1,000 gpm for 2 hours, no piping and/or storage improvements are recommended in the foreseeable future. In addition, the Town has a much greater need for finding a reliable water source.

Table 3.10 provides a summary of pressures and available fire flows for various conditions. Figure 3.1 presented earlier provides a map of hydrants locations, which also identifies node and hydrant numbers.

Noting that the Town does already have considerable storage and an operating fire department, it is recommended that the Town request a re-evaluation of their ISO rating. The fire department may also wish to check the ISO's list of requirements for being rated.

3.3.8 Water Meters

The Town of Melstone recently installed water meters for all individual service connections. The meter project was completed as part of the "Melstone Well Pipeline and Meters" project that was completed in June of 2005. A total of 92 meters were installed. Of those meters, only 17 were installed indoors and the remaining 75 were installed in outside meter pits. The meter pits

are Mueller pits that have coiled pipe allowing the Town Operator to easily pull the meters up to the surface for maintenance.

The meters are Master Meter, multi-jet radio-read meters. The radio-read device has saved a significant amount of Operator time, as it literally takes approximately 5 minutes to read meters for the entire Town. The Town has been reading the meters on a monthly basis since installation in June of 2005. Water usage presented in Section 3.3.1 was determined in part through the meter readings.

The Town had a few meters just after installation that they were having difficulty reading with the radio-read device. However, it was due to high groundwater levels submerging the meters. Submergence was not a concern for the meters as they are warranted for full submergence, though, it was weakening the radio signal enough that it was difficult to read. The Town has since been able to rig these meters to sit slightly higher in the meter pit (above the standing water) and have had no further difficulty in reading the meters. It should also be noted that the water level in these pits were checked later in the fall to be sure that freezing did not become a problem and groundwater levels had dropped to below the pits.

It is important to note that although the Town has installed meters, they have not yet begun charging based upon actual usage. By monitoring the usage over the last several years, the Town has been able to more equitably determine what the base rate and usage charge should be. The Town has now determined a new rate structure based upon metered usage, which will become effective on June 1, 2008. Please see Appendix L for a copy of the Resolution of Intention to Increase Rates that was recently passed by the Town Council.

As a result of the new water rates to take effect in June, water usage is anticipated to be cut by approximately 25%. Please see Section 3.3.1 for more discussion on water usage.

3.3.9 Operational and management practices and capabilities

Operations and maintenance for the treatment plant was discussed in detail in Section 3.3.4 for each individual component of the treatment system. The most significant problems with the treatment plant are not a result of poor operations and maintenance but instead an out-dated plant. The controls on the treatment plant are no longer functional. In fact, the controls stopped

working shortly after installation. Therefore, the Operator must dedicate a significant amount of additional time to operate the plant manually. In addition, the plant was installed in 1986 before many of the changes to the surface water treatment rules. As a result, the treatment plant simply cannot meet the new standards. Furthermore, the plant is beginning to show the signs of its age and individual components are starting to fail. Unfortunately, new components are not easily obtained as sizes are not the same and it is very costly to try to repair some of the old parts and pieces. Considering the age and condition of the treatment plant, the Operator has done an excellent job in maintaining the system.

In addition to the water treatment system, the Town has also done well in maintaining the distribution system, water storage tank, well pipeline, and meters to the best of their ability. The water storage tank was discussed in detail in Section 3.3.5. It was noted in that section that the tank is in relatively good condition but is in need of repainting. The tank is considered a much lower priority than water supply and treatment due to the urgency of the public health and safety threat. Thus, the Town has plans to repaint the tank after the most urgent health and safety concerns associated with supply and treatment are resolved.

The distribution system was discussed in detail in Section 3.3.7 and the meters were discussed in detail in Section 3.3.8. Nearly the entire distribution system is relatively new (installed in 1988) and there have been very few leaks and repairs that have been necessary. Until a few years ago, most of the Town's distribution system was dealing with leaking curb stops and inoperable fire hydrants. However, along with installation of meters in 2005, the Town was able to replace most of the leaking and/or inoperable curb stops. Since the installation of meters, the Town has been notifying customers of potential leaks. As a result, several minor leaks in service lines and homes have now been repaired.

The most significant operations and maintenance nuisance to the Town has been a result of the buildup of carbon dioxide in the new well pipeline. Just after installation of the pipeline, the Town began to see a pressure drop in the line at the treatment plant. After additional monitoring and evaluation, it was determined that the problem was associated with a build-up of carbon dioxide in the well pipeline. It is believed that there is a minor high point in between air release valves. The carbon dioxide builds up in the high point and essentially reduces the effective size

of the pipe in turn significantly increasing the friction through the pipe. The additional headloss reduces the pressure throughout the remainder of the pipeline, resulting in significantly lower than expected pressures at the treatment plant. Initially, the Town was flushing water through the line on a periodic basis to blow off the air.

The Operator has also since reduced the pumping rate of the well. The decreased flow rate has helped to minimize carbon dioxide in the line and there have been no major problems with decreasing pressure. Although there has been not need to flush the line since reducing the rate, it would still be beneficial to include in the new project a few additional air release valves with the problematic area of the pipeline. This should provide a permanent fix to the carbon dioxide problems in the pipeline regardless of pumping rate.

Although the air release valve can effectively reduce the carbon dioxide build-up in the pipeline, the carbon dioxide still presents a very serious health and safety concern for the Operator as it is a colorless, odorless gas that can result in unconsciousness when exposed to it in high levels for only a short amount of time (poisoning can occur in less than 30 minutes). Due to the seriousness of carbon dioxide exposure, the well control vault should be modified to include an automatic blower system.

No other operations and maintenance concerns were noted by the Operator, Town Council, or Engineer.

3.4 Financial Status of Existing System

Income and expenditures for the water system, including operations and maintenance, are included in the Water Enterprise Fund under the Town's accounting system. A summary of the operating expenses and revenue is included in Table 3.11.

Revenue that has been collected over the last three years has been based upon flat fee charges for water services of \$57.00 per month for residential services and \$58.00 per month for commercial services.

Table 3.11: Summary of Income and Expenses

DESCRIPTION	2005	2006	2007
<u>Operating Expenses</u>	-----	-----	-----
Personal Services	\$16,964.32	\$21,044.10	\$14,066.38
Supplies	\$9,304.10	\$4,975.03	\$5,285.89
Purchased Services	\$11,369.16	\$13,131.75	\$10,698.20
Building Materials	\$0.00	\$0.00	\$0.00
Fixed Charges	\$0.00	\$0.00	\$0.00
Loss/Bad Debt Expense	\$0.00	\$0.00	\$0.00
Depreciation	\$19,890.63	\$19,890.63	\$19,890.63
TOTAL EXPENSES	\$57,528.21	\$59,041.51	\$49,941.10
<u>Operating Revenue</u>	-----	-----	-----
Charges for Services	\$54,078.53	\$53,009.04	\$47,007.72
Miscellaneous Revenues	\$0.00	\$0.00	\$0.00
TOTAL INCOME	\$54,078.53	\$53,009.04	\$47,007.72
NET PROFIT (LOSS)	(\$3,449.68)	(\$6,032.47)	(\$2,933.38)

Expenditures for the last three years were also presented in Table 3.11 above. The operating expenses in 2005 and 2006 were comparable, but expenses actually decreased in 2007 by nearly \$10,000. The decrease in operating expenses is largely attributable to the Town's decreased reliance on the water treatment plant and increased reliance on Well #1. The well is much less time consuming to operate, which in turn reduced the costs for the Operator (personal services). Purchased services was less in 2007 than in previous years largely due to the hold up of the project while attempting to obtain an agreement with the land owner for construction of a new well. The decrease in supply costs from 2005 to 2007 is also partly attributable to less reliance on the water treatment plant (less use of the polymer and alum).

Also important to the financial status of the Town is the Town's ability to meet the "target rate." The target rate is a user rate that is established by the Montana Department of Commerce (MDOC) for each municipality across the state. The rate is used to determine whether or not a municipality is paying its fair share of a project's cost. In order to apply for grant funding from the MDOC, the user rates after completion of the project must meet or exceed the established target rates.

The target rates are calculated as a percentage of the median household income for the individual municipality, which is obtained from the 2000 Census. The MDOC has determined, based on surveying communities that have undergone recent upgrades to their water and/or wastewater system, that the “fair share” of cost per user after completing a project should be approximately 0.9 percent of the median household income for wastewater alone, 1.4 percent of the median household income for water only, or 2.3 percent of the median household income for water and wastewater combined. Specific to Melstone, the 2000 Census found a median household income of \$31,250. Thus, final target rates are calculated as follows:

Table 3.12: Target Rate for Melstone

SYSTEM	MHI	PERCENTAGE (%)	2008 TARGET RATE	
			ANNUAL	MONTHLY
MDOC: Water Only	\$31,250	1.4%	\$437.50	\$36.46
MDOC: Wastewater Only	\$31,250	0.9%	\$281.25	\$23.44
MDOC: Combined Target Rate	\$31,250	2.3%	\$718.75	\$59.90

Since target rates are based upon equivalent dwelling units (EDUs), it is important to calculate the Town’s rates based upon EDUs. An EDU rate system charges based on the area of the service size. A $\frac{3}{4}$ inch water service line is considered a typical residential water service and, therefore, considered to be 1 EDU. The EDUs for each service line are then calculated based on the area of the service size divided by the area of the $\frac{3}{4}$ inch service. Based upon the Town’s water meter records for customers that were billed a full rate in 2007, Table 3.13 presents a summary of those EDUs.

Table 3.13: Existing EDU's

Size of Service Connection (inches)	EDUs per Connection	RESIDENTIAL		COMMERCIAL		TOTAL	
		Number of Hookups	Total EDUs	Number of Hookups	Total EDUs	Number of Hookups	Total EDUs
3/4	1.00	52	52	13	13	65	65
1	1.79	0	0	0	0	0	0
1 1/2	4.00	0	0	0	0	0	0
2	7.14	0	0	1	7	1	7
3	16.00	0	0	0	0	0	0
4	28.57	0	0	0	0	0	0
Total		52	52	14	20	66	72

It is also important to note that the Montana Department of Commerce considers both the water and wastewater rates combined, for systems that have both. Since all residential services now pay \$57.00 per month for water and EDUs are based upon a residential service, the current water rates for a residence is considered to be \$57.00. However, with the proposed change in rate structure, the Town will be charging based upon usage by June 1, 2008.

The new rates to take effect in June 2008 will be set at a base rate of \$48.00 for the first 1,000 gallons plus a usage charge of \$3.00 per 1,000 gallons for anything over the first 1,000 gallons. Using the report for total water meter usage for 2007, it was calculated that the total residential usage amount to 4,266,510 gallon for 2007. Since there were 52 residential paying customers, the average usage per residence can be calculated as follows:

$$\begin{aligned}\text{Average Usage} &= \text{Total Volume (per year)} / \# \text{ customers} / 12 \text{ months/year} \\ &= 4,266,510 \text{ gallons} / 52 \text{ customers} / 12 \text{ months/year} \\ &= 6,837 \text{ gallons/month per customer}\end{aligned}$$

Using the average usage, the projected average residential water rate can be calculated as follows:

$$\begin{aligned}\text{Projected Rate} &= \text{Based Rate} + \text{Usage Rate (Total Usage} - \text{Base Usage)} / 1,000 \text{ gal} \\ &= \$48.00 + \$3.00 (6,837 \text{ gal} - 1,000 \text{ gal}) / 1,000 \text{ gal} \\ &= \$65.51\end{aligned}$$

Sewer rates are currently \$12.75 per connection. However, along with the change of water rates, the Town is also increasing the sewer charge to \$14.00, to be effective on June 1, 2008. The rates are further set to increase by \$1.25 per year over the next two years. Thus, by June of 2010, sewer rates will be \$16.50 (prior to the end of the project).

Table 3.14 below provides a comparison of the existing and projected rates with the target rate.

Table 3.14: Existing and Projected Residential Rates

SYSTEM	TARGET RATE	EXISTING RATE	PROJECTED RATE
MDOC: Water Only	\$36.46	\$57.00	\$65.51
MDOC: Wastewater Only	\$23.44	\$12.75	\$16.50
MDOC: Combined Target Rate	\$59.90	\$69.75	\$82.01
Percent of Target Rate	---	116.4%	136.9%

The Town is currently in excess of the target rate and will be at nearly 137% of the target rate after the project. Therefore, the Town is eligible to apply to the Montana Department of Commerce for grant funding.

4.0 NEED FOR THE PROJECT

4.1 Health and Safety

The number one priority for the Town over nearly the last decade has been maintaining an adequate supply of water. The Town was totally reliant upon the Musselshell River prior to 2005, which had stopped flowing for more than two months in 2000 and 2001 and over a month at a time in 2003 through 2004. The Town officially declared an emergency situation in 2001 due to drought conditions. In combination with the drastic reduction in usage by residents throughout Town as well as the hastily built raw water storage ponds during 2002, the Town was able to supply just enough water to meet the drastically reduced water demands until the river began flowing again in October of 2002. It should be noted that there were only a few inches of water remaining in the raw water storage ponds, water from the swimming pool had been hauled to the treatment plant, and the sedimentation pond was operating at about half of the normal operating level.

Since the construction of Well #1 and the connecting pipeline in 2005, the Town has been able to supplement water from the Musselshell River with the well water. However, the well is only capable of providing approximately 15 gpm on a continual basis, which is slightly less than the current average day demand. During peak summer months, the Town must still rely heavily on the river for additional supply. Unfortunately, the peak summer months also coincides with the lowest river flows, and considering that it is technically illegal for the Town to draw water in drought years from the river between May and October due to their later priority date, there is still a very real threat of complete loss of water. This presents a very serious public health and safety concern.

In addition to the threat of complete loss of water, the Town is also struggling with meeting regulations of the Safe Drinking Water Act. The water treatment plant is more than 20 years old, does not meet design requirements of Circular DEQ-1, and is beginning to show signs of its age. The plant is beginning to rust, valves and piping are becoming inoperable and/or are leaking, turbidity levels are increasing, organic carbon removal is poor, and disinfection by-products are high.

Because the treatment plant is much less effective in removing total organic carbon, there is increasing concern for the formation of disinfection by-products. Although limits there have not been any violations of the disinfection by-products (DBP) rule, the Town did exceed the new limits for both total trihalomethanes (TTHM) and haloacidic acids (HAA5) in 2002 prior to the 2005 effective date of the DBP rule. Since the effective date of the rule, levels have not been exceeded, however, they are high. The last testing in February 2008 resulted in 0.056 mg/l and 0.039 mg/l for TTHM and HAA5, respectively. Furthermore, the Town operator has noted that it has been increasingly more difficult to meet the 0.3 NTU turbidity limits (turbidity has reached 0.29 NTU on numerous occasions within the last year).

The high values do cause concern for the health and safety of the public because of the risks associated with each contaminant. According to the U.S. EPA, “higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.” Similarly, the EPA notes that total trihalomethanes cause “liver, kidney or central nervous system problems; increased risk of cancer” and that haloacetic acids can cause “increased risk of cancer.” These risks will become an increasing threat as the quality of treated water continues to deteriorate along with the treatment plant. Clearly, the quality of water not only affects the ability of the Town to meet state and federal regulations, but also clearly threatens the health and safety of the public.

Furthermore, the Town will need to comply with the Long Term 2 Enhanced Surface Water Treatment Rule that went into effect in January of 2006. The new rule will require the Town to monitor for E. coli at the source water for a minimum period of 12 months beginning in October of 2008. If the E. coli trigger level is exceeded, another 12 months of monitoring for Cryptosporidium will be required. Once monitoring is complete, the results will be used to classify the Town’s water treatment plant into a bin classification. At a minimum, the treatment plant will need to meet a minimum of 4-log removal for Cryptosporidium and any additional treatment to be required will be dependent upon the bin classification. It is anticipated that the existing plant will be given a credit of 2.5 log removal. Since chlorine disinfection is not credited for additional log removal for Cryptosporidium, the existing treatment plant will not be sufficient to meet the new regulations.

In addition to the Safe Drinking Water Act, the water treatment facility also does not meet numerous design standards within Circular DEQ-1. For example, the raw water storage ponds consist of very steep dikes with no bank protection (violation of DEQ-1 3.1.4.3). The interior dike between the two ponds failed just 6 months after construction, resulting in essentially one large pond. Dike failure would be catastrophic as the Town relies upon the ponds to meet water demands when the river stops flowing as it appears will be the case this year.

Other items required by Circular CEQ-1 but not met include:

- Only one flash-mix is provided whereas two are required (DEQ-1 4.2.1.a)
- The presedimentation basin has no mechanism for sludge removal, the incoming water is not dispersed across the full width of the basin, and there is no bypass mechanism (DEQ-1 4.1.1.a, b, c)
- The clarifier units each have a detention time at the design flow of 100 gpm of 22 minutes, though the system is limited to 30 gpm per train (due to filter restrictions) in practical operations. The net actual detention time is 74 minutes in practice for each train, though 2 to 4 hours is recommended (DEQ-1 4.1.5.9.a)
- The clarifier includes tube settlers designed for an upflow rate of 2.5 gpm/sf. DEQ-1 requires a maximum of 2 gpm/sf unless a system can be shown to operate effectively at a higher rate, which has not been shown. (DEQ-1 4.1.6.1.d)
- Being limited to 30 gpm per filter, the plant does not meet the requirements for each filter to meet the plant design capacity (100 gpm). Also there is no measurement for differential pressure across the filter media. (DEQ-1 4.2.1.10.2)
- Provisions have not been made for the control of taste and odor, which has been a problem particularly when using river water after the river has stopped flowing (DEQ-1 4.9)
- There is currently no practice for removing alum sludge, other than sending it to the small recycling pond. This is not listed as an option under DEQ-1 4.11.4 and is a concern since all raw water passes through this pond before entering the plant.

4.2 System O&M

Considering the condition of the water treatment plant, the water Operator has done an excellent job in managing the water system on a daily basis. The treatment plant has been maintained to the best of the Town's ability and the Operator has prevented many potential treatment violations due to her vast knowledge of the system. It should be noted that the actual reporting has been submitted late on an occasional basis. However, all samples have been taken according to the monitoring and sampling schedule provided by DEQ.

The distribution system is in relatively good condition and consists of primarily PVC water mains. There are a few leaks that the Town has had to replace over the last several years, but all have been relatively minor. Since the installation of meters, the Town has replaced a few batteries. Though, all were still under warranty at the time. A large number of curb stops were also replaced during the time of meter installation.

Outside of the water supply and treatment problems that will require major capital improvements to improve, the Town has noted concerns with the existing water storage tank. The tank is in need of some minor repair and painting. Because the tank is a much lower priority than the supply and treatment, it is recommended that the Town begin budgeting for the repair and painting over the next few budget years.

In addition, there is a high area within the new pipeline that is causing carbon dioxide to build-up resulting in increased friction loss. This can be easily resolved by the addition of a new air release valve at the high area. However, the carbon dioxide buildup in the well control vault is a major concern as it is a very serious threat to the Operator despite having a gas monitor to check levels before entering. As such, an automatic blower system should be added to the vault to ensure the health and safety of the Operator. Since the work will be much cheaper to complete when a Contractor is already on site, both modifications to the well control vault and the new air release valve will be included in all potential alternatives.

No other operating and/or maintenance concerns have been noted within the water system.

4.3 Growth

Along with most of eastern Montana, the Town of Melstone has seen a slight decrease in population over the last several decades. However, considering that the Town will be completing major capital improvements and that accounting for a slight increase in population will not have a significant impact on costs, it would be unreasonable to assume that there will no growth resulting in an undersized system with only minimal growth. Therefore, to be conservative and account for some limited growth, the Town is planning for a growth rate of 1.0% per year. Table 2.4 presented the projected populations based upon the assumed growth rate. The result is a current equivalent population of 158 persons and a 20-year projected equivalent population of 201 persons.

Because the projected growth is relatively small, the increase to water demand is slight. Thus, the overall water supply and treatment is not impacted to a degree that it results in significant cost increases. Therefore, it is considered prudent to design for the entire 20-year projected population as part of the immediate improvements.

4.4 Unresolved Problems

The primary problems within the Town of Melstone's water system are a result of inadequate supply and treatment. Both of these problems will be addresses as part of the potential alternatives considered in Chapters 6 and 7. In indicated previously, the alternatives will also address the low area in the well pipeline.

The only problem that will not be addressed as a result of the potential alternatives is the tank repair and maintenance. This is an O&M concern that the Town will be addressed through their operating and maintenance budget, of which will begin building once the new rates take effect in June 2008. No other unresolved problems will remain within the water system after the completion of the recommended alternative.

5.0 GENERAL DESIGN REQUIREMENTS

Chapter 3 provided a detailed evaluation of the existing water system and deficiencies were summarized in Chapter 4. This chapter will attempt to identify the design criteria, which will apply to the development of various alternatives to correct the deficiencies.

5.1 Circular DEQ 1: Design Standards for Water Works

Most importantly, all alternatives must be designed to meet minimum state and federal regulations. Specific sections of Circular DEQ-1 are referenced throughout this report, but all design criteria presented in Circular DEQ-1 are applicable to each of the alternatives that will be considered. The subsections to follow in the Chapter will reference only some of the more pertinent sections of Circular DEQ-1 that should be considered in developing alternatives. In addition, all plans and specifications will require review and approval from the DEQ prior to construction.

5.2 Regulatory Requirements and Permits

Other applicable regulations/design criteria include the Safe Drinking Water Act (SDWA) administered by the Environmental Protection Agency (EPA) but monitored and enforced by the Montana Department of Environmental Quality (DEQ). For construction of a new well, the Town will also need to apply for new water rights. This will be discussed in more detail in the Alternative Analysis section in Chapter 7.

The Safe Drinking Water Act was originally passed by Congress in 1974 and later amended in 1986 and 1996. The primary purpose of the SDWA is to protect public health by regulating the nation's public drinking water supply. The following subsections provide a brief summary of the applicable drinking water regulations and the impact that they will have on Melstone.

5.2.1 National Primary Drinking Water Regulations

The National Primary Drinking Water Regulations are enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water. The Montana Department of Environmental Quality has been given primacy for

enforcing the primary maximum contaminant levels (MCLs). Because of the numerous contaminants with MCLs, the list is not included in the text of this report but is provided in Appendix I for further reference.

5.2.2 National Secondary Drinking Water Regulations

The National Secondary Drinking Water Regulations are non-enforceable guidelines regulating contaminants that may cause cosmetic or aesthetic effects in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply, though, states may choose to adopt them as enforceable standards. At this time, the secondary contaminants are limited to: aluminum, chloride, color, copper, corrosivity, fluoride, foaming agents, iron, manganese, odor, pH, silver, sulfate, total dissolved solids, and zinc. A list of secondary MCL's is included in Appendix I for further reference.

5.2.3 Surface Water Treatment Rule (SWTR)

The Surface Water Treatment Rule (SWTR) was originally established in 1989 for the primary purpose of improving public health protection through the control of microbial contaminants, particularly viruses, Giardia, and Cryptosporidium. The SWTR applies to all public water systems using surface water or ground water under the direct influence of surface water.

In general, the SWTR required all systems to provide disinfection and to filter, unless specific filter avoidance criteria can be met. The filter requirements of the SWTR include monitoring of individual filters as well as establishing combined filter effluent (CFE) limits. As of June 1993, the CFE limit was established as 0.5 NTU in 95% of samples or a maximum of 5 NTU in any sample. In addition, the rule required monitoring of the CFE a minimum of every four hours or at the individual filter effluent (IFE) continuously. It should be noted that this was later superseded by the Interim Enhanced Surface Water Treatment Rule or the Long Term 1 Enhanced Surface Water Treatment Rule, which will be discussed later.

The disinfection portion of the SWTR requires all systems to meet a 3-log inactivation and/or removal of Giardia as well as a 4-log inactivation and/or removal of viruses. The actual disinfection limitations include regulations for both the entry point to the distribution system and the residual of the distribution system. The regulations at the entry point stipulate that the

residual disinfectant concentration cannot be less than 0.2 mg/l for more than a four hour period. Similarly, the residual disinfectant concentration in the distribution system must be sampled at the same locations as the coliform samples and cannot be undetectable in more than 5% of samples in a month for two consecutive months.

The Surface Water Treatment Rule remains in effect today. However, the Enhanced Surface Water Treatment Rule, which will be discussed below, was later established to further enhance and amend the SWTR. Hence, the supersedence of the turbidity limits.

5.2.4 Enhanced Surface Water Treatment Rule

Interim Enhanced Surface Water Treatment Rule

The Interim Enhanced Surface Water Treatment Rule (IESWTR) went into effect in 1998 and enhances the originally established SWTR for the primary purpose of improving public health control of microbial contaminants, particularly *Cryptosporidium*. In addition, the IESWTR was established as a means to prevent significant increases in microbial risk that might otherwise have occurred when systems implemented the Stage 1 Disinfectant and Disinfection Byproducts Rule.

It is important to note that the IESWTR only applies to systems serving more than 10,000 persons with the exception of the new requirement for sanitary surveys. Under the IESWTR, sanitary surveys are required to be conducted by state agencies for all surface water systems regardless of size. The Town of Melstone has had several sanitary surveys conducted since promulgation of the new rule. A copy of the latest sanitary survey is included in Appendix x for further reference.

Otherwise, the IESWTR does not apply to the Town of Melstone since the Town's water system serves fewer than 10,000 persons. Though, the same requirements of the IESWTR were established in the Long Term 1 Enhanced Surface Water Treatment Rule for community water supplies serving less than 10,000 persons.

Long Term 1 Enhanced Surface Water Treatment Rule

The Long Term 1 Enhanced Surface Water Treatment Rule (LT1ESWTR or LT1) went into effect in 2002 and enhances the originally established SWTR for the primary purpose of improving public health protection through the control of microbial contaminants, particularly *Cryptosporidium*. In addition, the IESWTR was established as a means to prevent significant increases in microbial risk that might otherwise have occurred when systems implemented the Stage 1 Disinfectant and Disinfection Byproducts Rule. LT1 has the same requirements as the IESWTR with the exception that LT1 applies to systems serving less than 10,000 persons and IESWTR applies to systems serving more than 10,000 persons. Thus, the rule is applicable for the Town of Melstone.

The two major provisions applicable to Melstone within LT1 include: (1) a maximum contaminant level goal (MCLG) of zero, and (2) a 2-log inactivation and/or removal of *Cryptosporidium* (applicable to filtered systems). For conventional and direct filtration, the new CFE turbidity limits are 0.3 NTU for 95% of samples taken each month in addition to a maximum allowable turbidity of 1 NTU in any samples. The CFE is still required to be monitored every 4 hours, but the rule also requires continuous monitoring of individual filters with the exception that systems with two or fewer filters (applicable to Melstone) may conduct continuous monitoring of CFE turbidity instead. The deadline for meeting the new turbidity requirements was January 14, 2005.

Other regulations included as part of LT1 are the disinfection profiling and covered reservoir requirements. For systems such as Melstone serving less than 500 persons, the disinfection profiling was required to be started by January 1, 2004 and completed by December 31, 2004. Under the rule, as of March 15, 2002, the construction of uncovered finished water reservoirs was prohibited.

Long Term 2 Enhanced Surface Water Treatment Rule

The Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR or LT2) went into effect in 2006 and was finalized in conjunction with the Stage 2 Disinfection and Disinfectants By-Product Rule (Stage 2 DBPR). The primary purpose of the rule is to improve public health protection through the control of microbial contaminants by focusing on systems with elevated

Cryptosporidium risk. In addition, LT2 is intended to prevent significant increases in microbial risk that might otherwise occur when systems implement the Stage 2 DBPR.

The major provisions under LT2 include: (1) requirement for filtered surface water systems to monitor source water; (2) requirement for filtered system to provide additional treatment for Cryptosporidium based upon bin classification; and (3) requirement for systems with uncovered finished water storage to either provide a cover or provide inactivation and/or removal of at least 4-log for viruses, 3-log for Giardia, and 2-log for Cryptosporidium.

There are a few exceptions to the source water monitoring requirements including that a system already has source water monitoring data that may be grandfathered in; a filtered system already provides at least 5.5-log of treatment for Cryptosporidium (maximum credit) or an unfiltered system already provides at least 3-log of treatment for Cryptosporidium (maximum credit); or a system intends to install the level of treatment to receive maximum credit for Cryptosporidium. Otherwise, the source water monitoring at a minimum will include 12 months of monitoring for E-coli. If the E-coli level is triggered, systems must conduct another 12 to 24 months of source water monitoring for Cryptosporidium. Each system is placed into a “bin” classification based upon the results of their Cryptosporidium monitoring and the bin classification determines any additional treatment required.

The Town of Melstone is considered a Schedule 4 System as the Town’s water system serves a population of less than 10,000 persons. Thus, the source monitoring is not required to begin until October 2008. It should be noted that the Town will be required to submit a sampling schedule or statement of intent to provide at least 5.5-log removal for Cryptosporidium by July 1, 2008. If the Town remains with a surface water source, the Town will be required to begin a second round of source water testing by October 2017.

If the Town were to continue water supply via the Musselshell River, it will require replacement of the existing water treatment plant as the current plant is deteriorating and cannot meet state and federal requirements. However, until source monitoring is complete (by September 2009 at the earliest or March 2012 at the latest), the Town will not know if additional treatment for Cryptosporidium will be required and if so, how much additional treatment will be required.

Therefore, it will be prudent to plan for additional treatment to ensure that the Town will be in compliance with LT2 upon completion of the project. Correspondence with Shelley Nolan of the Montana DEQ indicated that credit for *Cryptosporidium* removal is dependent not only on the type of treatment provided but also on the specific treatment system (i.e. microfiltration systems may vary depending upon specific manufacturers and what information/testing of the system is available to the state). Ms. Nolan did note that almost any new treatment system would be likely to be credited a minimum of 2.5-log removal.

Additional treatment would need to be provided by approved methods in the EPA “microbial toolbox.” Some approved methods of additional treatment include UV disinfection, ozone, chlorine dioxide, and membranes. The preferred method of additional treatment would be through UV disinfection. UV disinfection is a relatively small component that could easily fit within the existing treatment plant. In addition, there are no chemicals required and operation is relatively simple. One of the biggest advantages in using UV disinfection, however, is that UV has been found to easily meet the requirements for an additional 3-log removal. Providing for an additional 3-log removal would allow the Town to meet the maximum credit of 5.5-log removal of *Cryptosporidium*, which would eliminate the need for source water monitoring resulting in a cost savings.

In summary, it is recommended that any alternatives involving surface water treatment be designed for the capability of providing an additional 3-log removal for *Cryptosporidium* in order to meet the maximum credit of 5.5-log removal as stipulated in LT2. Thus, no source water monitoring will be required.

5.2.5 Filter Backwash Recycling Rule (FBRR)

The Filter Backwash Recycling Rule (FBRR) went into effect in 2001 and applies to any filtered surface water treatment systems that recycle spent filter backwash, thickener supernatant, or liquids from dewatering processes. The FBRR requires systems that recycle to return specific recycle flows through all processes of the system’s existing system or at an alternate location approved by the state. The rule stipulates that systems should have been in compliance by June 8, 2004 by redirecting recycle flows through the entire processes of a system’s existing filtration

system. However, the rule also provided a 2 year window to comply with the rule if any capital improvements were required.

As noted previously, the Town's recycled backwash water and alum sludge is sent to the recycle pond. The process pumps take water from the recycle pond mixed with the new water from the sedimentation pond right into the treatment plant (recycled water does not go back into the sedimentation pond in order to maximize treatment). Since the recycle ponds are small, there is a real potential to short-circuit water from the backwash directly back into the plant with little dilution.

Since the Town has been working towards an alternate source water supply, which would eliminate need for the water treatment plant, the Town did not wish to expend any additional funds to correct the deficiency. It should be noted that due to elevations, it would require additional process pumps to pump the recycle water to the sedimentation pond. Regardless, the existing treatment plant does not meet the FBRR and any improvements would need to remedy this.

5.2.6 Disinfectants and Disinfection By-Products Rule

Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR)

The Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR) became effective in 1998 for the primary purpose of improving public health protection by reducing exposure to disinfection byproducts. The Stage 1 DBP is the first of a staged set of rules that will reduce the allowable levels of DBPs in drinking water. This is extremely important as some disinfectants and disinfection byproducts (DBPs) have been shown to cause cancer and reproductive effects in lab animals and suggested bladder cancer and reproduction effects in humans. Through implementation of the rule, the EPA estimated that as many as 140 million people will receive increased protection from DBPs, there will be a 24% reduction nationally in trihalomethane levels, and that there will be reduction in exposure to the major DBPs from use of ozone and chlorine dioxide.

The new rule established seven new standards and a treatment technique of enhanced coagulation or enhance softening to further reduce DBP exposure. Table 5.1 provides a

summary of the newly regulated contaminants. It should be noted that for systems with populations of less than 10,000 persons, such as Melstone, the regulations went into effect on January 1, 2004.

Table 5.1: Stage 1 DBPR - Regulated Contaminants/Disinfectants

Regulated Contaminants	MCL (mg/l)	MCLG (mg/l)
Total Trihalomethanes (TTHM)	0.080	
Chloroform		-
Bromodichloromethane		0
Dibromochloromethane		0.06
Bromoform		0
Five Haloacetic Acids	0.060	
Monochloroacetic acid		-
Dichloroacetic acid		0
Trichloroacetic acid		0.3
Bromoacetic acid		-
Dibromoacetic acid		-
Bromate	0.010	0
Chlorite	1.0	0.8
Regulated Disinfectants	MRDL (mg/l)	MRDLG (mg/l)
Chlorine	4.0 as Cl ₂	4
Chloramines	4.0 as Cl ₂	4
Chlorine dioxide	0.8	0.8

Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR)

The Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) went into effect in 2006 for the primary purpose of increasing public health protection by reducing the potential risk of adverse health effects associated with disinfection byproducts throughout the distribution system. The Stage 2 DBPR builds on the Stage 1 DBPR by focusing on monitoring for and reducing concentrations of two classes of DBPs (TTHM and HAA5) in drinking water. The rule covers all community water systems that either add a primary or residual disinfectant other than ultraviolet light, or deliver water that has been treated with a primary or residual disinfectant other than ultraviolet light.

Under the Stage 2 DBPR, the Town of Melstone qualifies as a Schedule 4 System or a system serving a population of less than 10,000 people. In addition, the Town qualifies for a Very Small System (VSS) waiver from conducting an Initial Distribution Evaluation System (IDES). For Melstone, the Stage 2 DBPR will require monitoring at two locations once per year beginning on October 1, 2013. Compliance will be based upon a locational running annual average (LRAA), which will be calculated at each monitoring location, for the contaminant levels listed in Table 5.2 below.

Table 5.2: Stage 2 DBPR – Regulated Contaminants

Regulated Contaminants	MCL (mg/l)	MCLG (mg/l)
Total Trihalomethanes (TTHM)	0.080 LRAA	
Chloroform		0.07
Bromodichloromethane		0
Dibromochloromethane		0.06
Bromoform		0
Five Haloacetic Acids	0.060 LRAA	
Monochloroacetic acid		0.07
Dichloroacetic acid		0
Trichloroacetic acid		0.02
Bromoacetic acid		-
Dibromoacetic acid		-

5.2.7 Arsenic Rule

The Arsenic Rule became effective in 2001 for the primary purpose of improving public health by reducing exposure to arsenic in drinking water. Studies have shown that arsenic can be linked to causing skin damage, problems with the circulatory system, and increased risks of cancer. As a result, the new rule changed the arsenic MCL from 50 µg/l to 10 µg/l and the MCLG to 0. In addition, the rule also requires monitoring for arsenic for new systems and new drinking water sources as well as clarifies the procedures for determining compliance with the MCLs for IOCs, SOCs, and VOCs.

The EPA estimates that implementation of the rule may avoid 16 to 26 non-fatal bladder and lung cancers per year; avoid 21 to 30 fatal bladder and lung cancers per year; and reduce the

frequency of non-carcinogenic diseases. The actual implementation of the MCL became effective on January 23, 2006.

5.2.8 Lead and Copper Rule

The Lead and Copper Rule became effective in 1991 for the primary purpose of protecting public health by minimizing lead (Pb) and copper (Cu) levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials (i.e. pipes and/or joints).

The rule established action levels (AL) of 0.015 mg/l for lead and 1.3 mg/l for copper based on 90th percentile level of tap water samples. An action level exceedance is not a violation of the rule but can trigger other requirements that include water quality parameter monitoring, corrosion control treatment, source water monitoring/treatment, public education, and lead service line replacement.

To date, the Town of Melstone has never exceeded the action level for lead and copper. Thus, outside of monitoring for lead and copper, no further action has been required.

5.2.9 Radionuclides Rule

The Radionuclides Rule went into effect in 2000 for the primary purpose of reducing the exposure to radionuclides in drinking water to reduce the risk of cancer. The rule is also intended to improve public health protection by reducing exposure to all radionuclide. The EPA estimates that implementation of the rule will reduce uranium exposure for 620,000 persons and provide protection from toxic kidney effects of uranium as well as a reduced risk of cancer.

The rule retains the existing MCLs for combined radium-226 and radium-228 (5 pCi/l), gross alpha particle radioactivity (15 pCi/l), and beta particle and photon activity (4 mrem/yr), but regulates uranium for the first time. The new MCL for uranium under this rule was set as 30 µg/l. Systems were required to begin initial monitoring in December 2003.

5.2.10 Total Coliform Rule (TCR)

The Total Coliform Rule (TCR) went into effect in 1989 for the primary purpose of improving public health protection by reducing fecal pathogens to minimal levels through control of total

coliform bacteria, including fecal coliforms and *Escherichia coli* (E-coli). The rule establishes a maximum contaminant level based on the presence or absence of total coliforms; modifies monitoring requirements including testing for fecal coliforms or E-coli; requires use of a sample siting plan; and also requires sanitary surveys for systems collecting fewer than five samples per month. Implementation of the rule has resulted in reduction in the risk of illness from disease causing organisms associated with sewage or animal wastes, of which disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and associated headaches and fatigue.

Actual number of samples required per month under the TCR is dependent upon population size. For Melstone, the population is under 1,000, thus, only one sample is required per month. If a sample tests positive for total coliform, four repeat samples (for systems that collect only 1 sample per month) must be collected and analyzed within 24 hours for total coliform. If any repeat sample is total coliform positive, then the systems must analyze the positive sample for fecal coliforms or E-coli. The system must also collect another set of repeat samples, as before, unless the MCL has been violated. If the MCL is violated, the system must notify the state by the end of the next business day.

The results of routine and repeat samples are used to compute compliance with the TCR. For the size of Melstone, a monthly MCL violation is triggered if there is more than one route/repeat sample per month which is total coliform positive. An acute MCL violation is triggered if the system has any fecal coliform or E-coli positive repeat sample or has a fecal coliform or E-coli positive routine sample followed by a total coliform positive repeat sample.

5.3 Sources of Water Supply/Protection

Water supply was discussed in detail in Section 3.3.2. Water quantity, quality, reliability, and water rights are all a concern for the Town of Melstone currently. The water quantity is limited due to reliability of the river since the river has completely stopped flowing for over a month in four of the last seven years. In addition, the date of the Town's 1914 water rights for the Musselshell River limit when the Town can "legally" draw water from the river during drought years such as 2002.

Therefore, for any surface water alternatives, the Town must include raw water storage. The raw water storage at a minimum should provide at least several months of storage in order to adequately meet water demands during drought conditions. However, the Town must also consider adequate storage to cover any periods in which the Town cannot legally draw water. Thus, it is recommended that the Town design raw water storage to include 6 months of average summer demands to cover the months (May through October). The raw water storage ponds must be designed in accordance with Circular DEQ-1:

3.1.4.3 Off-Stream Raw Water Storage Reservoir

- a. water quality is protected by controlling runoff into the reservoir,*
- b. dikes are structurally sound and protected against wave action and erosion,*
- c. intake structures and devices meet requirements of Section 3.1.4.1,*
- d. point of influent flow is separated from the point of withdrawal, and*
- e. separate pipes are provided for influent to and effluent from the reservoir.*

For any groundwater source alternatives, the Town will also need to comply with DEQ-1 design criteria. Section 3.2 specifically covers groundwater source development, but of particular importance for Melstone is:

3.2.1.1 Source Capacity

- a. The total developed groundwater source capacity for systems utilizing storage or pumped storage, unless otherwise specified by MDEQ must equal or exceed the design maximum day demand with the largest producing well out of service. Storage must comply with the requirements of Section 7.0.1.*

3.2.1.3 Auxiliary Power

- a. When power failure would result in cessation of minimum essential service, sufficient power must be provided to meet average day demand through*
 - 1. connection to at least two independent public power sources, or*
 - 2. portable or in-place auxiliary power.*

All new groundwater sources will also require appropriation of new water rights through the Montana Department of Natural Resources and Conservation.

Water quality has also been discussed throughout this report, but a brief review of water quality issues will be provided under Section 5.5: Water Treatment.

5.4 Water Use/Demand Data

Water usage was discussed in Section 3.3.1 and was calculated based upon actual water production and current population estimates. It was assumed that billing based upon water usage will cut water consumption by approximately 25%. Using the projected per capita water usage information and the projected populations for the design year 2030, the following values will be used as the basis for design and improvements:

- Average Day Demand 21 gpm (30,150 gpd)
- Maximum Day Demand 73 gpm (105,525 gpd)
- Peak Hour Demand 1467 gpm

A review of fire flows will be presented in Section 5.8: Water Storage.

5.5 Water Treatment

Existing water treatment was previously discussed in Section 3.3.4. If the Musselshell River continues as the source water supply, the Town will need to provide a new treatment system which is capable of meeting the surface water treatment rules that were discussed previously. The proposed treatment system will also need to meet Circular DEQ-1 design criteria, specifically Chapter 4 - Treatment.

If Melstone were to find an alternate groundwater source, no treatment outside of disinfection is likely to be required. The potential to find an adequate supply of groundwater with acceptable water quality parameters for drinking is generally limited to the Fox Hills aquifer. Well #1 and Well #6T are both within the Fox Hills formation. Both wells have been tested and meet all National Primary Drinking Water Regulations with no treatment. Though, it should be noted that any well will need to be tested for all primary MCLs prior to connection to the system. Again, Section 3.2: Groundwater (Source Development) of Circular DEQ-1 would be met.

5.6 Water Pumping

Chapter 6 of Circular DEQ-1 presents design standards for pumping facilities, however, no new pump stations are recommended. The only new pumps that may be recommended would be in association with either a new surface water treatment system (various process pumps) or pumps for any new wells. As such, pumps will be considered under these components but will still be required to meet all of the design standards presented in Circular DEQ-1.

5.7 Transmission/Distribution

Distribution system design requirements are presented in Section 8 of Circular DEQ-1. However, the distribution system was evaluated in detail in Section 3.3.7 and found to be in excellent condition. Thus, no improvements are recommended.

If a new water treatment plant is constructed, there may be some additional water pipelines required to connect the various ponds and treatment plant (i.e. sedimentation pond to storage pond to treatment plant). All new piping would be the applicable design criteria.

The most significant source of new piping, however, would be associated with a new groundwater source. Since the wells would be located approximately 10-miles west of Melstone, there will be a substantial amount of new water transmission main required. DEQ design requirements for transmission mains are also included Chapter 8 of DEQ-1. Some items that will be important for design of the transmission main will be:

8.2.1 Pressure

All water mains, including those not designed to provide fire protection, must be sized after a hydraulic analysis based on flow demands and pressure requirements. The system must be designed to maintain a minimum normal working pressure of 35 psi. Minimum pressure under all conditions of flow must be 20 psi...Maximum normal working pressure should be approximately 60 to 80 psi. Transmission mains and water lines directly serving reservoirs are exempt from the minimum pressure requirements where the line pressures are controlled by the reservoir water surface elevation.

8.2.1 Valves

Sufficient valves must be provided on water mains so that inconvenience and sanitary hazards will be minimized during repairs. Valves should be located at not more than 500 foot intervals in commercial districts and at not more than 800 foot intervals in other districts. Where systems serve widely scattered customers and where future development is not expected, the valve spacing should not exceed one mile.

8.5.1 Air relief valves

At high points in water mains where air can accumulate provisions must be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves may not be used in situations where flooding of the manhole or chamber may occur. Use of manual air relief valves is recommended wherever practical.

Each of these items will be important in the design of a transmission main from the wells to the existing treatment plant. The pipeline would be a “rural” system and would generally follow the terrain. Thus, proper venting of air will be extremely important. In addition, the provisions allow for valves on such a rural line to be located up to 1 mile apart. All these design criteria will be met for each of the alternatives proposed.

5.8 Water Storage

Water storage was discussed in Section 3.3.5. Chapter 7 of Circular DEQ-1 provides design criteria for finished water storage. Section 7.0.1 provides general guidelines for storage tank sizing.

Storage facilities must be sufficient, as determined from engineering studies, to supplement source capacity to satisfy all system demands occurring on the maximum day, plus fire flow demands where fire protection is provided.

- b. The minimum allowable storage must be equal to the average daily demand for a 24-hour period plus fire flow demand where fire protection is provided. A Storage Sizing Engineering Analysis must support any deviation requests from this standard...*

It was determined that fire protection through sprinklers on the 3 larger buildings in Melstone (School, Community Center, and Jake’s Garage) would be more economical than providing fire

protection through a storage tank. In addition, sprinklers would provide greater fire protection as the sprinklers are immediate. With sprinklers provided on these buildings, a total needed fire flow for Melstone was estimated to be 1,500 gpm (though, the ISO has never rated Melstone for NFF).

Using a 1,500 gpm fire flow for a 2 hour duration results in a needed fire volume of 180,000 gallons. This is the same size as the Town's water storage tank. Thus, the maximum day demand could not be provided in addition to fire flow. However, the equipment for the fire department is currently limited to 1,000 gpm. Considering the maximum fire protection that could actually be provided is only 1,000 gpm, the Town does have adequate storage.

It should also be noted that though the water tank is in good condition, it will require re-painting in the near future. Because tank painting is considered to be an operations and maintenance item, the tank painting will not likely be eligible for grant funding. Thus, it will not be included in recommended improvements. However, if additional loan monies were available after completion of the proposed project, the Town could consider using the additional loan funds to complete tank painting.

5.9 Water Meters & Conservation

As noted several times previously, the Town recently installed meters on all service connections. In order to provide residents with time to determine how much water is used on average and provide the Town with more information to develop an equitable water rate structure, the Town has been continuing charging for water based upon a flat rate. Now that the Town has just over two years of full data, the Town is implementing new water rates that will be based upon billing. The new water rates will go into effect on June 1, 2008.

Actual per capita usage for the Town is between that of a typical metered system in Montana and a typical non-metered system in Montana. It is assumed that once Melstone begins charging based upon metered usage, water usage will drop by approximately 25%. There are many advantages to operating as a metered system, which were discussed in detail in Section 3.3.8. DEQ also supports the use of meters as Section 8.12 of Circular DEQ-1 states, *"Each service connection should be individually metered..."*

The anticipated conservation of water will be extremely important for the Town as lack of adequate water supply is the number one concern for the water system as well as for the health and safety of the Town.

5.10 Water System Wastes

Water system wastes will be extremely important for any surface water treatment plant. A conventional system such as the Town's existing system can recycle the backwash water, however, the recycled water would need to meet the Filter Backwash Recycle Rule as well as Circular DEQ-1 design criteria. In the case of the existing treatment plant, this would require that the recycled water be sent to the sedimentation pond so that the water would flow through the entire treatment process and not be short-circuited from the recycle pond directly back into the treatment plant.

Other forms of treatment such as membrane filtration will result in at least a portion of waste streams that cannot be recycled. The wastewater treatment lagoons are currently in violation of state and federal standards as they have been noted by the DEQ to be leaking excessively. As a result, the lagoons will not be able to handle any disposal of waste streams from a new water treatment plant. Therefore, an onsite method of disposing and/or treating the waste stream will need to be considered for any such alternative. If adequate space is available at the treatment plant, a total retention lagoon would be the preferred method of disposal as this would require essentially no operations and maintenance (other than mowing the outside of the pond, which is already being done).

It should be noted that no waste streams would be created for a new well source.

6.0 ALTERNATIVE SCREENING PROCESS

Numerous alternatives exist that will address the identified deficiencies in the Town's water system. However, many of the existing alternatives are not viable due to capital and operation and maintenance costs that are several times higher than other available alternatives or are simply not appropriate for the Town's system. The Alternative Screening process that follows will discuss the available alternatives and determine which ones are viable for detailed consideration in the Alternative Analysis.

Although both water supply and water treatment problems were identified, alternatives will be considered for both problems combined. This is due to the nature of the problem and the fact that needed treatment is going to vary dependent upon the water source.

6.1 Water Supply and Treatment Alternatives

Up until 2005, the Town of Melstone was entirely dependent on the Musselshell River for water supply. Considering that the river has stopped flowing for over a month for 4 years out of the 7 last years, the Musselshell River is clearly not a reliable source of continual water supply. Since the Musselshell River is the only surface water supply within many miles of the Town of Melstone, the Town is limited to continuing supply from the Musselshell, providing a new groundwater source, or using a combination of water from the Musselshell River and groundwater.

In addition to the water supply, the Town of Melstone is also in desperate need of changes to the water treatment plant. The existing plant is in poor condition and will not continue to meet Surface Water Treatment rules. Because necessary treatment is so different depending on whether the water is surface water or groundwater, the treatment considerations are considered as part of the water supply alternatives.

The following alternatives present potential water supply and treatment improvements for the Town of Melstone.

6.1.1 No Action

The No Action alternative is oftentimes attractive for small communities as there is no capital cost associated with it. Unfortunately, the Town cannot continue to meet Surface Water Treatment rules. Not only will the plant be in direct violation of federal and state standards, but the inadequately treated water will be a threat to the health and safety of the public.

In addition to inadequately treating the water, the water treatment plant is also in very poor condition. Just within the last fiscal year, the Town has spent nearly \$2,000 replacing minor parts, such as check valves, leaking shut-off valves, etc. Since this time, the Operator has since ordered parts for the turbidity monitor. The Operator is anticipating that at least another \$3,000 will be spent on maintenance of the plant by the end of this year. The costs of maintaining the existing system will continue to increase until the entire system must be replaced.

Another major potential health and safety treat is the possibility of running out of water completely. Although the Town can now supplement the surface water supply with their well, the capacity is limited to about 15 gpm on a continual basis. Even if Well #2 were connected to the system, the two wells combined could only meet a total demand of roughly 20 gpm. If the river were to stop flowing during the summer months, the Town would again be relying on their raw water storage ponds. Considering the ponds have a total storage capacity of roughly 1.95 million gallons, the storage would be limited to roughly 130 days (4.3 months) of summer day demands after accounting for additional flows from the well production. Ideal storage would be for May through October (approximately 6 months). However, the primary concern regarding the storage ponds is the stabilization of their steep banks.

With the public health and safety threat of lack of water supply and lack of adequately treated water, the No Action alternative is not considered feasible and will not be considered in more detail in the Alternative Analysis section.

6.1.2 Expand Raw Water Storage and Upgrade Existing Treatment Plant

This alternative would include expanding the raw water storage ponds and upgrading the existing water treatment plant. Because of the unreliability of a continuous supply of water from the Musselshell River, any alternative involving use of the river as a source water supply would

include some form of additional raw water storage. This would allow the Town to fill the raw water ponds during the late spring months when water demands are down and the river water level is at its peak. The ponds would be sized to provide a minimum of water storage for typical May through October demands (less the anticipated well production), as this would be when the Town would not be able to legally draw water during drought years. This would also enable the Town to draw water from the storage ponds rather than the river when water at the Musselshell River was low and/or stopped flowing and water quality is very poor. This type of raw water storage would allow a continuous supply of water for the Town throughout the year.

In addition to raw water storage, the alternative would also include a new sedimentation pond. In order to maximum settling to the greatest extent, the sedimentation pond would provide a detention time of approximately 30 days. The pond outlet would also include an infiltration-type gallery. The water would leave the pond via a perforated outlet, which would be covered with a screen and/or sand to help further improve water quality and help stabilize incoming turbidity.

The type of treatment considered as part of this alternative would essentially be an upgrade of the gravity filter “package” plant. As indicated previously, the Town’s existing treatment plant does not provide complete redundancy (i.e. a new rapid mix unit is required and two complete trains). In addition, the clarifier is undersized and a new flocculation system is needed as well as new controls. Due to the lack of space in the existing plant, an upgrade and expansion of the system would require a major building expansion. With a building expansion and costs of these major upgrades, it is anticipated that the treatment plant improvements alone would likely be in excess of \$500,000 and this does not include any other plant repairs that may be necessary as a result of an aging system.

Also, the Montana DEQ is leary of package plants and do not readily approve or recommend construction of such plants. They have not had great performance throughout the state and Melstone has been no exception. The relatively poor quality of the Musselshell River does not lend itself well to treatment by a package plant.

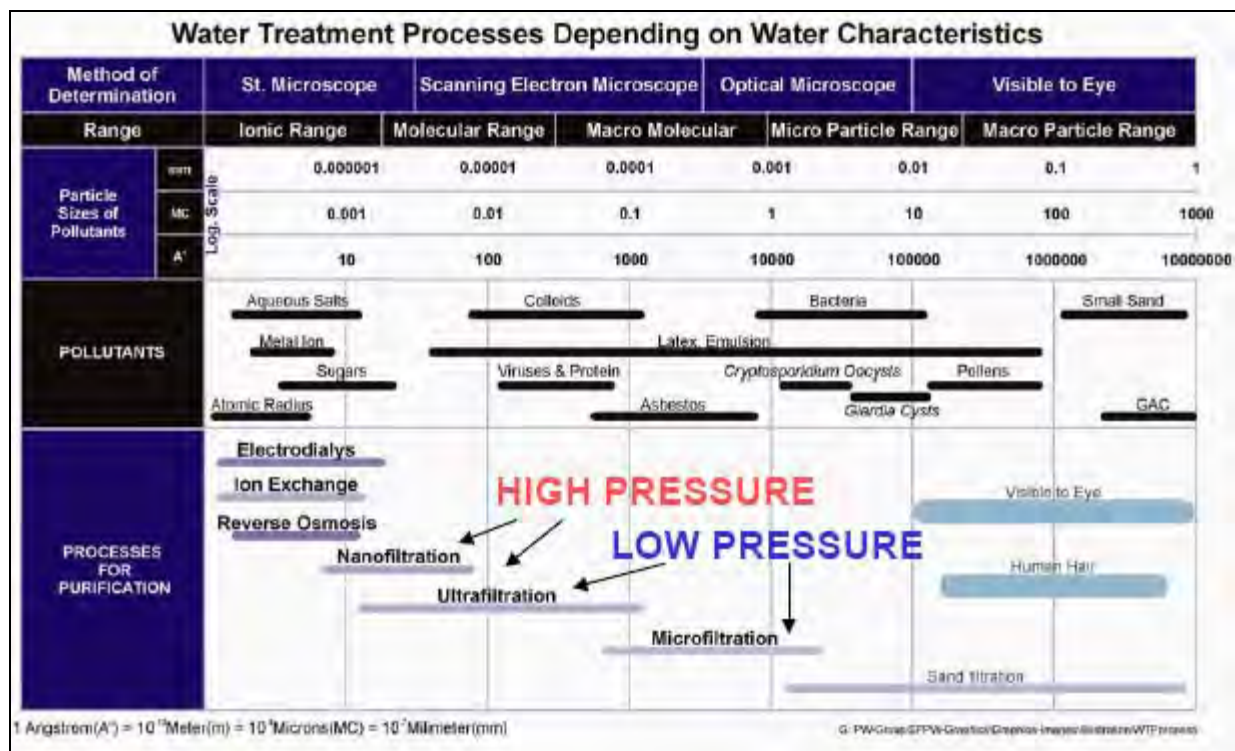
Due to cost and poor treatment performance, this alternative is not considered viable for Melstone and will not be discussed further in the Alternative Analysis section.

6.1.3 Expand Raw Water Storage and Provide New Microfiltration or Ultrafiltration Treatment

This alternative would include expanding the raw water storage ponds and providing a new microfiltration or ultrafiltration plant. As with the last alternative, the raw water pond would be expanded to provide additional storage of river water to be treated. In addition, a new sedimentation basin would be constructed to help improve the water quality before entering the treatment plant.

Microfiltration and ultrafiltration are essentially the same process. The primary difference between the two systems is the pore size. Microfiltration has a pore size of roughly 0.1 to 0.2 μ whereas ultrafiltration has a pore size of roughly 0.01 μ . As a result of the smaller pore size, ultrafiltration is typically more effective in removing viruses and dissolved organics. Figure 6.1 below provides a comparison of sizes of typical water constituents versus difference membrane processes.

Figure 6.1: Membrane Pore Size vs. Typical Water Constituents



Clearly, ultrafiltration has the capability of removing additional constituents, including viruses and colloids. However, ultrafiltration can also help remove total trihalomethane precursors. Since TTHM's are relatively high, the ultrafiltration would be the most helpful to the Town in regard to meeting the Disinfectants and Disinfection By-Product Rule.

In addition to treatment capability, there are also several other driving factors behind selecting an appropriate system including capital costs, maintenance costs, recovery rates, and fouling potential. Though capital costs vary from manufacturer to manufacturer, generally microfiltration systems are slightly less expensive. However, the difference is not considered significant. The primary difference between the membrane systems outside of pore size is the recovery rate, which is also impacted by the pore size and directly impacts operations and maintenance costs. The Handbook of Public Water Systems²⁷ notes that the recovery rate for microfiltration is 95 to 98% whereas the recovery rate for ultrafiltration is approximately 80 to 95%.

Where systems are treating water high in organics, the organics are generally the primary reason for fouling due to adsorption and blocking of pores. To minimize fouling potential and enhance treatment, the Town will need provide algae control for their storage ponds. Another serious potential for fouling with the Town's water source, however, is its hardness. There are a few options that can be considered including softening.

The recommended approach for Melstone is to fill the water when the hardness of the river water is down. Only limited records are available for the Musselshell River, but in the late 1970's and early 1980's there is clear documentation that the levels of hardness vary significantly throughout the year. Hardness was seen as low as 230 mg/l as CaCO₃ up to 830 mg/l as CaCO₃. Some of the low numbers were seen during flooding and/or storm events when discharge levels were very high, and most of the high numbers were seen when the river discharge was at a minimum. In general, hardness levels were lowest around May when the river discharge was at its greatest. It is estimated that if the Town filled the raw water storage pond in May (in years

²⁷ HDR Engineering, Inc. Handbook of Public Water Systems. Second Edition. 2001.

where drought restrictions do not prevent this), the hardness levels would be between 300 and 400 mg/l.

Although the hardness would still be higher than optimal (200-250 mg/l), the Town could utilize the extremely soft well water to backwash and clean the membranes. If hardness was still a problem as would be determined by pilot testing, the Town could blend the well water and river water to bring hardness levels down even further.

Because of the relatively poor water quality in Melstone (hard water, high TOCs, and high TDS), an ultrafiltration system is anticipated to have more fouling problems without providing some means of pretreatment. Thus, a microfiltration system is considered more ideal for Melstone and is considered a viable alternative. Thus, it will be considered in more detail in the Alternative Analysis.

6.1.4 Expand Raw Water Storage and Provide Reverse Osmosis or Nanofiltration Treatment

This alternative would include expanding the raw water storage ponds and providing a new reverse osmosis or nanofiltration treatment plant. As with the last alternative, the raw water pond would be expanded to provide additional storage of river water to be treated. In addition, a new sedimentation basin would be constructed to help improve the water quality before entering the treatment plant.

Reverse osmosis (RO) and nanofiltration (NF) are another form of membrane filtration and use the physical straining process to remove particles similar to microfiltration and ultrafiltration. The removal of dissolved contaminants through diffusion, charge interactions, and steric effects is unique to reverse osmosis and nanofiltration. Another significant difference is the operating pressure as RO and NF systems operate at much higher pressure than do MF and UF systems.

As can be seen from Figure 6.1 presented earlier, reverse osmosis and nanofiltration systems have a much wider range of contaminant removal than do microfiltration and ultrafiltration systems. As noted in the Handbook of Public Water Systems²⁸, “The only substances that are

²⁸ HDR Engineering, Inc. Handbook of Public Water Systems. Second Edition. 2001.

not typically separated by membranes are dissolved gasses.” Clearly, the advantages of the system are a very high quality finished water. However, the disadvantages are the operating costs associated with it along with the potential pretreatment requirements.

The recovery rate for RO and NF systems vary significantly as a result of source water. RO systems can see recovery rates of anywhere between 30 and 85% whereas NF systems have recovery rates of between 70 and 90%.

As was noted with MF and UF systems, organics is a common cause of fouling. Due to the nature of RO and NF systems, there is a much wider range of constituents that can result in fouling. The most common constituents for fouling applicable to Melstone are: suspended solids, scaling, microbiological growth, and organics.

Generally, manufacturers require turbidity of the feedwater to be less than 1.0 NTU and recommend even less than that. With an average turbidity of 30 NTU and spikes of 60 NTU, an RO or NF system would definitely require pretreatment for Melstone’s water supply. In addition, even if the Town were able to fill the storage ponds in the later winter/early spring when hardness levels are at a minimum, the RO and NF systems would still require pretreatment. Furthermore, additional organic removal would be required to prevent fouling of the membrane (outside of algae control) and pH adjustment would likely be required following treatment.

Based upon the water quality and manufacturers recommendations, the Town would need to provide significant pretreatment of the raw water prior to the reverse osmosis or nanofiltration systems. The most effective form of pretreatment considering Melstone’s particular water quality would be through MF or NF. Capital costs to provide both RO or NF and MF or UF would be in the neighborhood of \$750,000 for equipment alone.

In addition to equipment, operating an RO or NF system in conjunction with a MF or UF system would be extremely costly. Initial analysis assuming costs of filter replacement, membrane replacement, chemicals, etc., costs are estimated to be nearly \$1.50 per thousand gallons for an RO system alone. Assuming the treated volume of water to be approximately 4.5 million gallons (out of 11 million gallons projected total yearly demand), the annual operating costs of the RO

system alone would be roughly \$6,750. This is in addition to costs for operating the UF and MF system.

Considering that a MF or UF system alone could provide adequate treatment for Melstone to meet surface water regulations and the extremely high capital and operating costs for an RO or NF treatment plant, this alternative is not considered feasible and will not be discussed further in the Alternative Analysis section.

6.1.5 Expand Raw Water Storage Ponds and Provide Slow Sand Filtration

This alternative would include expansion of the raw water storage ponds and replacement of the treatment plant with a slow sand filter plant. Similar to the other alternatives involving surface water treatment, the exiting raw water storage ponds would be expanded and reconstructed to maximize raw water storage. The storage would be sized to provide sufficient water supply even if the river stopped flowing for several months during the year.

Treatment of the water would be through a slow sand filter. Slow sand filters are very different from rapid-rate filters as the removal process is completed through a biological mechanism rather than through a physical-chemical mechanism. The slow sand filters have a smaller pore space between particles, which reduces the flow rates through the filter and increases the total area required.

The effectiveness of the filter is primarily dependent upon the Schmutzedecke, which is the biological layer that forms on the filter. The Schmutzedecke consists of biological active microorganisms that break down organic matter. Similar to rapid filtration, suspended inorganic matter is removed by straining. For this reason, feedwaters with high suspended solids should be pretreated prior to the sand filter to avoid rapid clogging. Thus, a sedimentation pond would be included as part of this alternative as well.

Cleaning of slow sand filters is completed by scraping off the top layer of Schmutzedecke. As a result, the system will need to build a new Schmutzedecke layer prior to treating water. Experience has shown that most Schmutzedecke layers can be formed within a few days. Hence, the Town would need to waste approximately 2 days of water that runs through the filter after cleaning to allow time for a new Schmutzedecke layer to form.

It is important to note that the use of slow sand filters in the United States is limited. As of 1991, there were no such systems reported anywhere in the North Central US (Montana, the Dakotas, Minnesota, Iowa, Wyoming, Nebraska, Illinois, or Missouri) with the exception of one facility in Wisconsin. Since 1991, in Montana, there has been one slow sand facility reported in White Sulphur Springs.

White Sulphur Springs had one filter installed in the river, which did not work, so a second filter was constructed. Effluent turbidities of the second filter were actually higher than the influent turbidities of the creek water (though, the filter was not cleaned throughout its 10-year life). At the time of the conversation with White Sulphur Springs, they were in the process of constructing a third filter.

The lack of effectiveness in White Sulphur Springs along with the lack of use throughout the country leads to the conclusion that slow sand filters may not be a respectable choice for Melstone. It is also worth noting that the Schmutzedecke is more effective in warm climates due to the biological nature than in colder climates. Other items of concern for Melstone are that slow sand filters are most effective on feedwaters with very low turbidity (< 1.0 NTU) and high water quality. Melstone has neither. For all of these reasons, a slow sand filter is not considered a viable method of treatment for Melstone and will not be considered further in the alternative analysis.

6.1.6 New Fox Hills Well(s), Wellhouse, and Pipeline

This alternative is very different from the other alternatives discussed so far. Rather than use the Musselshell River as a source of water supply, this alternative would rely entirely on groundwater. As a result, treatment requirements would be less stringent potentially resulting in significant savings with regard to operations and maintenance costs.

Section 3 provided a detailed discussion of the groundwater research that has been done to date including the numerous test wells that have been completed. The only significant groundwater source of adequate water quality for drinking water (without significant treatment) that has been identified within the general vicinity of Melstone was located approximately 10 miles west of Melstone in the Fox Hills aquifer. The Town has completed a test well (Well #6T) and found a yield of 85 gpm.

In order to comply with DEQ regulations to meet peak day demands with the largest producing well out of service, the Town would need to construct two new Fox Hills wells with a minimum yield of roughly 50 gpm. A 50 gpm well is located on the property just east of the existing well. Thus, it is likely that any further east would result in lower yields. There is also a potential to go slightly northwest of the existing well to reach the same aquifer, though, the well may be slightly deeper.

The preferred site would be within the area of the existing well, as the test well confirms that there is good quality, high yield water. Also, the site is very close to the County road and would allow for much easier pipeline construction. The Town does have a land agreement with the landowner to drill one well at the site, and the Town has been working on an amendment to the agreement that would allow the Town to construct a second well. Unfortunately, the landowner has not committed to the amendment at this point and would like to charge for the water that comes from the well(s) based upon usage. Since the water rights are state-owned until a water right is filed, such a charge would not be acceptable to the Town. Unfortunately, the Town has been working towards the agreement for over a year with no success. If a land agreement cannot be reached within the next month, the Town will be forced to look to an alternate well site.

In preparation of potential relocations, the Town has identified two potential landowners that may be agreeable to construction of a well on their property. The land is within the areas noted above that also have a high potential for significant yield, which are slightly east of the existing well and northwest of the existing well. The second best alternate source would be east as it would be very close to the existing well. As a last resort, the Town could try the property to the northwest, which would likely add at least an additional mile of pipeline to the project.

In order to connect the wells to the Town's existing water system, the alternative includes approximately 12 miles of pipeline. Because the water quality meets all MCL's, treatment would be limited to disinfection. The existing treatment plant could be taken out of service, which eliminates a large portion of the Town's operations and maintenance (O&M) costs.

Major advantages of the alternative are the elimination of reliance on the Musselshell River, the reduced monitoring and testing requirements required by DEQ for a groundwater source (from a

surface water source), and reduced Operator time for operations and maintenance of a treatment plant.

Though there would be substantial savings in O&M costs, the capital costs of a 12-mile pipeline would be significant. HDPE would be the preferred construction material for several reasons. HDPE is extremely durable and flexible; it can be trenched into the ground eliminating the need for major excavation equipment, minimizing trench restoration, and significantly reducing the amount of time for installation; and it has proven effective for Melstone through their 5-mile pipeline. Rough estimates of \$15 per foot for the HDPE pipe installation and accounting for some valving can be assumed resulting in a capital cost of over \$950,000. Considering the benefits of the system and the potential O&M savings, this alternative is worth considering in more detail and will be discussed in the Alternative Analysis section.

6.1.7 Joint Water Supply with Musselshell

This alternative would include connecting the Musselshell and Melstone water systems together. Musselshell is an unincorporated community located approximately 15 miles west of Melstone. The community water system within Musselshell is owned and operated by a County Water and Sewer District. The District has expressed an interest in consideration of a new water supply well as well as the need for distribution system improvements.

The potential well site that has been identified for Melstone is located approximately 3 miles northeast of Musselshell. The last alternative considered construction of two new Fox Hills wells near Test Well #6 and connecting the well to the Melstone water system through a rural pipeline, approximately 12-miles in length. This alternative would be similar except that only one new well would be required and an additional 3-miles of pipeline would be needed to connect the new pipeline to the Musselshell system.

Musselshell currently has two wells that produce approximately 35 gpm each. Water quality testing has indicated that the water is good quality and there have been no MCL violations. The majority of the source water supply for Musselshell would be from Musselshell's existing wells. Similarly, Melstone would rely primarily on Well #1 for average day demands. Well #6 would be used for both systems to help provide the additional demands during peak day events as well

as provide a backup well for each system to meet peak day demands with the largest well out of service, which would meet DEQ requirements.

Such a combined system could be a cost-effective solution for both Musselshell and Melstone's water supply problems. If each system were to complete water supply improvements on their own, Melstone would be required to complete two new wells and Musselshell would like to complete at least one new well. This alternative would allow the combined system to complete just one new well between them. In addition, there may be an additional cost savings for Musselshell if a water storage tank could be located near the new pipeline allowing for the placement of a less costly ground storage tank (verses an elevated tank in town) and potentially less piping to the storage tank.

After visiting with District, it is clear that water supply improvements and storage are a low priority for them. Their primary concern is to improve the distribution system. There was also no interest expressed in joining with Melstone. Musselshell is currently self-reliant, maintains and adequate supply of water, and does not want to "share" their limited water supply.

Based on the correspondence between Melstone and Musselshell, joining the two water systems is not considered a feasible alternative at this time and will not be considered further in the Alternative Analysis section.

6.1.8 Regionalization

This alternative would involve joining a regional water system. In the case of Melstone, there is a regional water system that is currently in the feasibility planning phase. The regional water system was originally called the Central Montana Rural Water System (CMRWS) and more recently has been called the Musselshell-Judith Rural Water System (MJRWS). The feasibility study considered several pipeline routes to deliver water from wells in the Utica area to deliver water to communities throughout the Judith Gap area and all along the Musselshell River Valley including Harlowton, Ryegate, Lavina, Roundup, and Melstone.

Figure 6.2 depicts the early planning routes of the rural system. It should be noted that the alternative route from Musselshell to Melstone is one of the potential routes for connecting a new Fox Hills well to the Melstone water system.

WELLS, TANK & BOOSTER STATION

DISTRIBUTION SYSTEM SCENARIOS

3. MOVE THE WEST TANK TO A LOCATION NORTHWEST OF JUDITH GAP.
4. PROVIDE A HIGHER TANK PRIOR TO JUDITH GAP ELIMINATING THE SECOND TANK & THE JUDITH GAP BOOSTER STATIONS.
5. SAME AS #4, BUT USE A LOWER ROUTE TO THE EASTERN TOWNS.
6. DETERMINE IF EXISTING POWER OR PETROLEUM PIPELINE ROUTES & RIGHT-OF-WAY (ROW) MAY BE USED FOR CMRWS PIPELINES.
7. EXAMINE USE OF A LARGER PUMP STATION & DROPPING THE 20" MAIN TO AN 18" MAIN FROM UTICA TO JUDITH GAP.
8. PROVIDE ADDITIONAL WATER SOURCES FROM SOUTHERN FOOTHILLS OF THE BIG SNOWY MOUNTAINS.
9. CONNECT TO PIPELINE CONSTRUCTED BY MELSTONE FOR MUSSELSHELL WELLFIELD.

Scenario 7, use 18"
Scenario 8, possibly use 16"

Scenario 6

Scenario 3

(Eliminate with Scenarios 4 & 5)

JUDITH GAP BOOSTER STATION

(Eliminate with Scenarios 4 & 5)

EAST JUDITH GAP TANK 5130

WEST JUDITH GAP TANK 4820
(Eliminate with Scenario 3 & Raise for Scenarios 4 & 5)

Scenarios 4 & 5

Scenario 5
Scenario 4

Scenarios 4 & 5

Scenario 8

Eliminate with Scenario 9

MELSTONE

MUSSELSHELL

Scenario 9

ROUNDUP

Scenario 6

HARLOWTON

RYEGATE

LAVINA

LAVINA-BROADVIEW BOOSTER STATION

BROADVIEW

NOTE: PRV'S NOT SHOWN FOR CLARITY.



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TOWN OF MELSTONE, MONTANA
WATER SYSTEM PER 2008

Figure 6.2: CENTRAL MONTANA RURAL
WATER SYSTEM

Although the rural water system would be a long-term solution to Melstone's ongoing drought concerns as well as water quality problems, the project is not anticipated to reach Melstone for many years. Although the system has determined a source water supply, the project is in the very early planning stages and costs are estimated at over \$100 million. No funding has been secured for the project and even if the project is determined feasible, it could take several years to procure even funding for early phases which would start well and pipeline construction near Utica. Melstone is at the end of the regional system. Thus, it is anticipated that even if the project is determined feasible and funding can be secured, it will be well over 10 years before the pipeline would reach Melstone.

Due to the seriousness of the water supply and treatment problems, it is clearly not feasible for Melstone to wait for the regional system to develop (if it develops further). Hence, this alternative is not considered viable for Melstone at this time and will not be considered in further detail in the Alternative Analysis section.

However, it is important to note that any pipeline constructed from the wells 10-miles west of Melstone to Melstone would be consistent with the regional system. Therefore, any funds spent on the rural pipeline would be a direct savings to the regional system.

7.0 ALTERNATIVE ANALYSIS

7.1 Water Supply and Treatment Alternatives

7.1.1 Alternative 1: Expand Raw Water Storage and Provide Sedimentation and Microfiltration

Description

This alternative would include expanding the raw water storage ponds, providing a new sedimentation pond, and providing a new microfiltration plant. The overall process flow of the water would begin with at the water intake where water would be pumped into the sedimentation pond. To provide adequate detention time for sedimentation, the ponds would be sized for approximately 30 days of detention time or approximately 570,000 gallons. See Appendix K for sizing calculations of the sedimentation pond.

The outlet from the sedimentation pond would be an infiltration-type gallery consisting of a perforated pipe covered with a screen and/or sand. The screen and sand will provide for some additional solids removal but will also be easily accessible for cleaning. From the infiltration gallery, the water would flow by gravity into the raw water storage pond. The pond would be approximately 2.8 million gallons, which would be an adequate supply for drought years in which the Town cannot legally draw water between May through October. See Appendix K for the sizing calculations of the storage pond.

The water would be pumped from the raw water storage pond to the microfiltration system. Two complete microfiltration trains would be provided to assure complete redundancy to meet DEQ regulations. To provide maximum credit for Cryptosporidium removal (total of 5.5 log), the treated water will be disinfected through a new UV disinfection system and then sent to the distribution system.

It will be important to consider the potential for fouling as this is a common problem with membrane filtration systems. Microfiltration, in particular, has a high potential for fouling due to organics and solids. Both the sedimentation pond and the infiltration gallery would help to settle out some of the solids and help to reduce influent turbidity (hopefully eliminating the

spikes of 60 NTU). In addition to solids reduction, regular algae control in the ponds would also help to reduce the total organic carbons.

Based upon correspondence with several operators around the state, they have had success with algae control through various algaecides. An algaecide would be preferred over other chemicals such as copper sulfate due to the health hazards associated with them. Colstrip has been using a product called Cutrine for over 15 years and has had no problems with algae since. The chemical is usually applied to the pond 2-3 times per year.

Although the actual choice of chemical would be determined during the final design after more research is conducted and possibly pilot tested, but since an algaecide is preferred it will be considered for Melstone for budgetary purposes. It will be assumed that the Town would need to complete three applications per year, beginning in June. The second application would likely follow in early June and a final application made in August.

Another potential fouling problem that may be pertinent to Melstone is the high water hardness. The only recent sample available for hardness of the Musselshell River at Melstone was obtained in June of 2004. The results indicate a total hardness of 702 mg/l as CaCO_3 , which is considered very hard. It is important to note that magnesium is a large contributor to the hardness as magnesium was found to be 103 mg/l and calcium was noted at 110 mg/l. Manufacturers for microfiltration systems typically claim that to obtain optimum treatment, hardness should be reduced to approximately 200 to 250 mg/l as CaCO_3 .

One approach that will be taken in Melstone to help reduce hardness levels is to fill the raw water storage ponds during February or March of each year. Although only limited records are available for the Musselshell River, there is some data available for late 1970's and early 1980's that show levels of hardness varying significantly throughout the year. Hardness was seen as low as 230 mg/l as CaCO_3 and up to 830 mg/l as CaCO_3 . Some of the low numbers were seen during flooding and/or storm events when discharge levels were very high (due to runoff), and most of the high numbers were seen when the river discharge was at a minimum. In general, hardness levels were lowest around May when the river discharge was at its greatest. Therefore, in years that it is possible (no water restrictions on the river), it is recommended that Melstone

fill the ponds in May, which should result in an average hardness of between 300 and 400 mg/l. See Appendix D for hardness data.

Although hardness levels would not be at optimum, the reduction should help fouling potential. Design will also plan on backwashing on a more frequent basis to account for the higher hardness. If pilot testing results indicate a need, the well water, which is extremely soft, can also be blended with the river water to further reduce hardness. Furthermore, the system design will include the capability to be backwashed with the extremely soft well water.

It is also important to note that the treatment would not be necessary during the winter months when demands are lower and wells can meet average day demands, however, it design will provide for minimum treatment throughout the plant during these months (i.e. an average of 3 gpm). It is important to maintain at least minimum flows through membrane filtration system in order to preserve the integrity of the membranes. Therefore, minimum flows of approximately 3 gpm will be assumed throughout the low demands months even when wells would be capable of meeting demands. Since demands will be much higher during summer months and wells will not be able to keep up, treatment will be necessary for full flows less the anticipated amount of well production. Appendix K provides calculations of these anticipated winter/summer demand flows.

Actual operational parameters would be determined after completing the pilot testing. However, for budgeting purposes it will be assumed that a recovery rate of 95% can be achieved as is generally considered the lower end for microfiltration systems. Thus, approximately 5% of the total water demand will be brine that will need to be wasted. The Town's wastewater lagoons are already overburdened and cannot accept this additional flow. Thus, the Town will need a form of on-site treatment or a permit to discharge the water to either surface water or groundwater.

There may be extensive monitoring required with a groundwater discharge permit, so it would not be a preferred alternative. Surface water discharge may be a reasonable alternative considering the raw water came from the river initially and is just essentially stripped of some of its nutrients. However, it is unknown as to whether or not the Town could receive a discharge permit without completed TMDL's.

The simplest form of on-site treatment would consist of a total retention lagoon, which would allow all water to be evaporated. Based upon the anticipated water to be wasted, a pond would need to have an area (at average water depth) of approximately 0.87 acres. The area to the north of the existing treatment site would be adequate for such a pond. See Appendix K for water balance and pond sizing calculations.

Another option for disposal would be through irrigation. There is a field just east of the treatment plant that would be a good candidate for irrigation, which could be easily completed through a small pump and Big Gun sprinkler. The land owner has not been very cooperative towards the Town in the past and no such land agreements have been initiated. Therefore, it would be unwise to assume that such an agreement could be negotiated until further information is available.

Consideration will be given to both irrigation and discharge to the river during the design phase, but for preliminary planning purposes, the conservative approach for brine disposal will be assumed to be through an evaporation pond. As noted above, the pond would need to be approximately 0.87 acres in size with a total depth of 5 feet. This assumes a sludge allowance depth of 2 feet, a water depth of 1 foot, and a freeboard depth of 2 feet (based upon a small system of less than 25,000 gpd) as required per Circular DEQ-2. It should be noted the onsite clay may be suitable as a pond liner, but further geological testing of the clay would be required prior to design. Thus, a synthetic liner will be included in the cost estimate.

It is extremely important that the new treatment system be designed to meet the new Surface Water Treatment Rules including LT2. The DEQ has noted that microfiltration would be expected to receive a credit of at least 2.5-log removal for *Cryptosporidium*, though, it is highly dependent upon the manufacturers testing, materials submitted, etc. Some manufacturers have shown removal to be as high as 6-log for *Cryptosporidium*. Thus a 2.5 log credit would appear to be very conservative and would meet the minimum 2-log removal requirements under LT1.

The primary concern is what bin classification the Musselshell River will be in after the required source water monitoring required by LT2. Based upon bin classification, there could be anywhere from no additional treatment required up to an additional 2.5 log treatment required. There is a provision for systems that have or plan to install a system that has a total of 5.5-log

removal of *Cryptosporidium*, which allows for these systems to skip the source water monitoring as no additional treatment is required.

Assuming that the microfiltration system would only be credited 2.5-log removal for *Cryptosporidium* and that the Musselshell River would fall into any of Bins 2 through 4, at least another 0.5-log removal would be required. Since chlorination is not credited for *Cryptosporidium* removal, the Town would need to obtain the additional removal through another means such as ozone or UV disinfection. Due to the likelihood of needing additional removal, this alternative will assume an additional 3-log removal will be obtained through UV disinfection and eliminate the need for the Town to complete the source monitoring. Though, the Town may still wish to complete the first round of *E. coli* monitoring, which may determine that no additional treatment is necessary.

Schematic Layout

Figure 7.1 provides a layout of the proposed alternative. The new raw water storage pond and sedimentation pond would be located to the south of the existing treatment plant. The evaporation pond would be placed just north of the plant where the existing recycle ponds are. The new microfiltration system and UV disinfection system would be located inside of the existing treatment plant after demolition of the old plant.

Operational Requirements

Operational requirements for this alternative are significant but are overall less challenging than the operation of the existing system. Considering there are no controls in the existing system, the Operator is manually operating the system.

The new microfiltration system and UV disinfection system will be an automated system that will actually be much simpler to operate. The Operator will still need to continue all testing for compliance with the Safe Drinking Water Act and DEQ regulations. However, much less time will be needed to actually operate the system. Operations will essentially be limited to monitoring system pressures, adjusting system settings as needed, changing membrane modules and UV lamps as needed, and cleaning the membrane filters (approximately once per month).

Obviously, other operations outside of the treatment plant will need to be maintained such as maintaining the distribution system, water storage tank, reading meters, etc.

The overall time for operations is estimated to be approximately 30 hours per week. Considering the existing system requires a full 40 hour work week, the resultant savings in Operator time is approximately 10 hours per week. Considering that approximately half of the Operator's wages come from the actual water system budget and an hourly wage of \$15/hour, this results in a total cost savings of approximately \$3,510 ($\$15/\text{hr} \times 10 \text{ hr/wk} \times 52 \text{ wk/yr} \times \frac{1}{2}$).

Energy Requirements

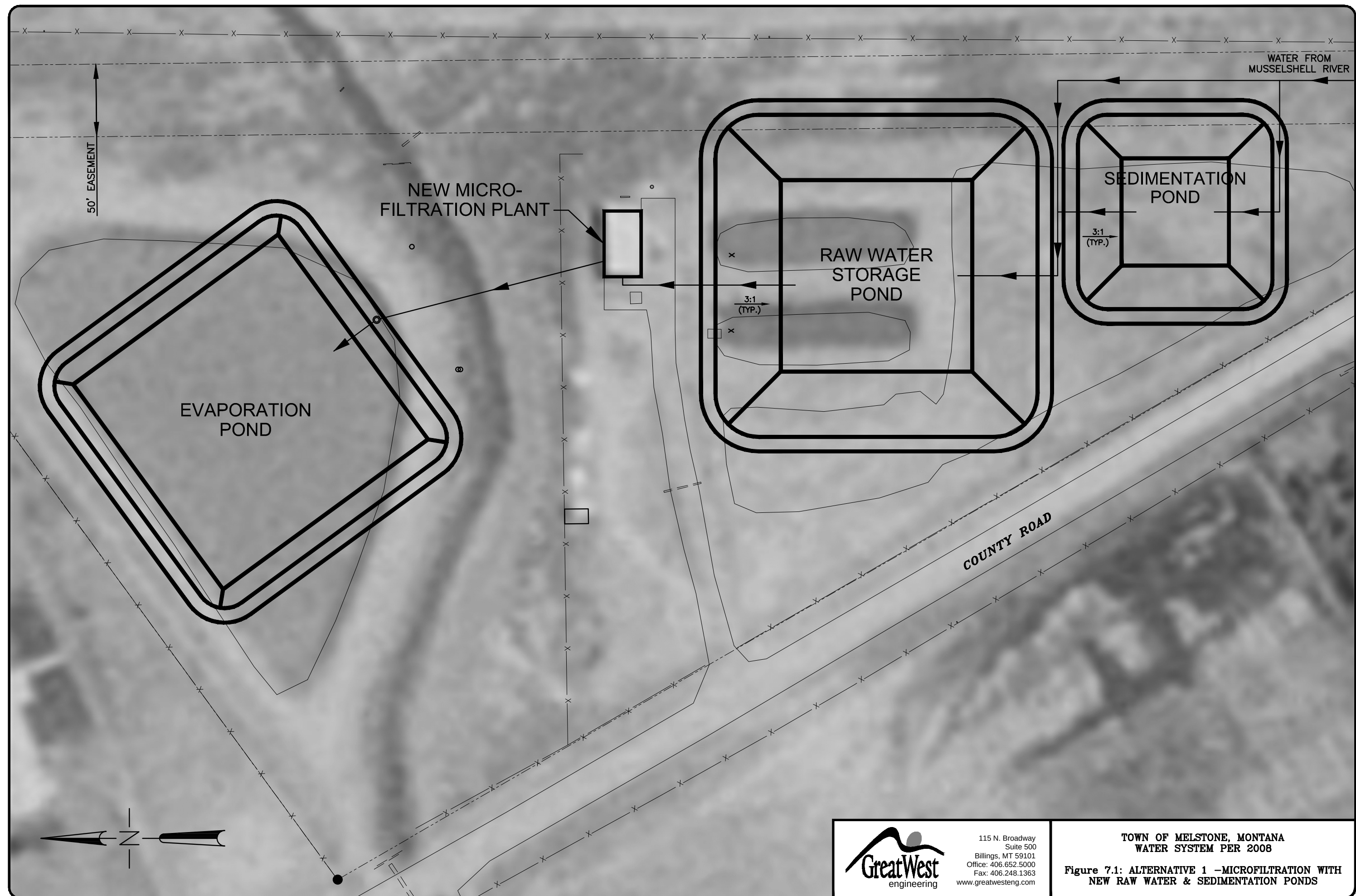
Calculations for energy requirements are included in Appendix M and Table 7.1 provides a summary of anticipated energy usage and costs associated with the operation of the water supply and treatment system considered in this alternative. In order to estimate actual costs as a result of the energy usage, it will be assumed that the energy will cost \$0.08 per kW-hour. As presented in the table below, the overall cost of power for the operations of the proposed alternative is estimated to be \$5,905 per year.

Table 7.1: Energy Usage for Alternative 1

Component	Energy Usage (kW-hr/year)	Estimated Usage Costs (\$/kW-hr)	Estimated Energy Costs (\$/year)
Wells #1 and #2	19,245	\$0.08	\$1,540
Microfiltration	19,400	\$0.08	\$1,552
UV Disinfection	2,754	\$0.08	\$220
High Service Pumps	13,527	\$0.08	\$1,082
Raw Water Pumps	3,886	\$0.08	\$311
Misc. Costs (Building Heat, etc.)	---	---	\$1,200
Total	58,812	\$0.40	\$5,905

A comparison of projected energy costs versus existing energy costs will be discussed as part of the Annual O&M Costs.

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**TOWN OF MELSTONE, MONTANA
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**Figure 7.1: ALTERNATIVE 1 –MICROFILTRATION WITH
NEW RAW WATER & SEDIMENTATION PONDS**

Actual design criteria and application regulations were discussed in detail in Chapter 5. The proposed alternative would be designed and constructed to meet all design criteria, including Circular DEQ-1. Plans and specifications would need to be reviewed and approved by the Montana Department of Environmental Quality before bidding and construction could begin.

Because more than one acre will be disturbed as a result of the proposed alternative, a stormwater discharge permit will be required during construction. The selected contractor would be responsible for obtaining a stormwater permit, as would be indicated in the project specifications.

Land Requirements

No additional land, easements, and/or rights-of-way would be need as a result of this alternative. All of the ponds would be constructed within the footprint of the Town's existing land. Furthermore, all new treatment components (i.e. microfiltration and UV disinfection) would be housed within the existing treatment plant.

Environmental Considerations

General environmental conditions were discussed in Section 2.5. There are no environmental problems associated with this alternative. All impacted land has been disturbed previously as a result of the construction of the existing water treatment system. There will be no changes in land use and no prime farmlands and/or wetlands will be impacted.

Construction Problems

This alternative is considered technically feasible and no unique construction problems are anticipated. Timing of construction would be crucial as the existing treatment plant would need to be demolished prior to installation of the new microfiltration system. To ensure there is an adequate supply of treated water, the construction will likely need to occur during the late fall/winter months or early spring when water demands are lower and the well water will have adequate supply.

Cost Estimates

Project Costs:

Total capital costs are presented in Table 7.2 at the end of this section, which includes costs for construction, engineering, and administration. Since the Town intends to apply for additional grant funding in the 2008 biennium, the project is anticipated to be constructed in 2010 and project costs have been accordingly inflated.

Annual O&M Costs:

Operations and maintenance were discussed as part of the project description and again as part of the “Operational Requirements” section. It was determined this alternative would result in a total savings of Operator costs of roughly \$3,510 per year. Energy costs were also discussed previously as part of the “Energy Requirements” discussion. It is estimated that the total energy usage will amount to an annual cost of roughly \$5,905. In 2007, the Town expended a total of \$4,900 in electrical bills, which amounts to a yearly increase of \$1,005.

These costs will be costs directly attributed to the operation and maintenance of the system. However, in addition to these costs, the Town will also need to budget for other short term assets, such as lamp replacements and membrane module replacements.

The proposed lamps for the UV disinfection system would be warranted for a lifetime of 12,000 operating hours. Assuming the lamps would run for 15 hours a day, 180 days a year (anticipated run time for the treatment plant), the lamps would need replaced approximately every 4 years. However, because the DEQ has not yet changed standards with regard to UV disinfection after LT2 and the EPA guidance manual was released, the DEQ may require lamps to be replaced every year (as stated in the “Policy on Ultra Violet Light for Treatment of Public Water Supplies” in Circular DEQ-1). The proposed UV disinfection system contains 3 lamps each, which cost just under \$200 to replace. Thus, the total cost per year for lamp replacement would be estimated at \$600.

Similarly, the microfiltration membrane modules have a limited life. Historically, membranes have been found to have a useful life of 3-10 years, though, actual life is highly dependent upon the raw water characteristics as well as the manufacturer. Some manufacturers actually see

Table 7.2: Capital and Life Cycle Costs for Alternative 1

Item	Unit	Quantity	Unit Cost ¹	Total
Connect Well #2 to Existing System	LS	1	\$7,500	\$7,500
Modifications to Well Control Vault	LS	1	\$18,000	\$18,000
Air Valve in Meter Pit	EA	1	\$2,500	\$2,500
Generator	EA	1	\$22,000	\$22,000
Demolition of Existing Water Treatment Plant	LS	1	\$40,000	\$40,000
Pilot Testing (assume 3 seasons or 9 months)	EA	9	\$5,500	\$49,500
New Microfiltration Plant (Equipment)	LS	1	\$420,000	\$420,000
Installation of Microfiltration Plant	LS	1	\$55,000	\$55,000
Miscellaneous Yard Piping	LS	1	\$38,000	\$38,000
UV Disinfection System	LS	1	\$48,000	\$48,000
Fencing	LF	3,200	\$10.00	\$32,000
Earthwork for Sedimentation Pond	CY	4,710	\$4.00	\$18,840
Sedimentation Pond Liner	SF	35,600	\$0.40	\$14,240
Sedimentation Pond Soil Cover	CY	1,300	\$4.00	\$5,200
Sedimentation Pond Riprap	CY	480	\$70.00	\$33,600
Infiltration Gallery for Sedimentation Pond	LS	1	\$35,000	\$35,000
Earthwork for Raw Water Pond	CY	31,150	\$4.00	\$124,600
Raw Water Pond Liner	SF	79,300	\$0.40	\$31,720
Raw Water Pond Soil Cover	CY	2,860	\$4.00	\$11,440
Raw Water Pond Riprap	CY	1,110	\$70.00	\$77,700
Earthwork for Evaporation Pond	CY	4,380	\$4.00	\$17,520
Evaporation Pond Liner	SF	49,000	\$0.40	\$19,600
Evaporation Pond Soil Cover	CY	1,700	\$4.00	\$6,800
Evaporation Pond Riprap	CY	490	\$70.00	\$34,300
Sub-Total: Direct Construction Cost				\$1,163,060
Mobilization, Bonding, Etc.		10.0%		\$116,306
Subtotal: Construction Cost (2008)				\$1,279,366
Subtotal: Construction Cost (2010)²				\$1,362,555
Contingency		10.0%		\$136,256
Total Construction Cost				\$1,498,811
Engineering and Construction Administration		16.0%		\$239,810
Grant/Loan Administration		2.0%		\$29,976
Total Capital Costs				\$1,768,597
<u>O&M Costs</u>				
Estimated Change to Annual O&M Costs				\$41
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				\$615
20 Year Life Cycle Costs				\$1,769,212

useful lives of 10+ years on their membranes. Since Melstone will have two microfiltration trains, it will be assumed that the life of the membranes will be extended to approximately 10 years. With membrane replacement costs of roughly \$2,000 and 6 modules per train, total costs would be approximately \$24,000 every 10 years ($\$2,000/\text{module} \times 6 \text{ modules/train} \times 2 \text{ trains}$). Equating this to an approximate annual cost, Melstone should budget approximately \$2,400 on an annual basis for the replacement of the membrane modules.

In order to maximize treatment through the microfiltration system, it was also recommended that some form of algae control be implemented. Application of an algaecide to the storage pond is preferred and would likely need to be applied three times per year (in June, July, and August). Though actual costs would depend on the algaecide actually used, the cost of the chemicals and labor to apply is anticipated to be \$200 per application resulting in an equivalent annual cost of roughly \$600.

Other costs to consider would be the changes in chemical costs. In 2007, the Town spent nearly \$4,700 in chemicals alone. The microfiltration plant will eliminate some of the chemical costs, such as the coagulant and polymer, but will need a chlorine solution for cleaning the microfiltration membranes in addition to possible caustic and citric acid. Calculations are included in Appendix M, but it was anticipated that the chlorine required as a disinfectant (for the wells) would cost approximately \$880 per year in addition to the chlorine required for daily backwashing estimated at \$615 per year. Cleaning of the membranes (every 30 days) would require approximately \$677 in caustic, \$1,319 in citric acid, and \$155 in hypochlorite. Thus, total costs for chemicals are estimated to be \$3,646 resulting in a net overall savings in chemical costs of \$1,054.

Table 7.3 provides a summary of the net changes in O&M costs anticipated as a result of this project.

Table 7.3: Changes in O&M Costs for Alternative 1

Item	Microfiltration O&M Costs
Personnel Costs	-\$3,510
Energy Costs	\$1,005
Chemical Costs	-\$1,054
UV Lamp Replacement	\$600
Membrane Module Replacement	\$2,400
Algae Control	\$600
Total Change in O&M Costs	\$41

Present Worth Analysis:

Prior to proceeding with a present value analysis, a reasonable discount rate should be determined. The discount rate is used to see how much money you need in the bank today to complete later improvements (i.e. the value of money invested today for later improvements). It relates inflation with interest rates. The higher the discount rate, the less significant future costs will appear to be in a present worth analysis.

In the early 1980's, interest rates were much higher than inflation and discount rates of up to 8% were reasonable. In the later 1980's and early 1990's, 5% to 6% was more reasonable, but discount rates dropped after that to roughly 3% to 4%. The formula for calculating a discount rate, where i = interest rate and e = inflation rate is: $(i-e)/(1+e)$. Using $i = 6\%$ and $e = 3\%$, the discount rate is calculated to be just under 3%. The same would apply if figures of 5.25% and 2.25% were used, which is arguably the best figures for the current year. This shows that money invested today that increases 6% per year will have an effective buying power continuously reduced by an inflation rate assumed at 3%. See Appendix N for research on interest and inflation rates and a table demonstrating the use of the proposed discount rate.

A present worth analysis was presented in Table 7.2 as part of the cost estimates. The table shows the total life cycle costs for this alternative, where life cycle costs include the total amount

needed to be invested today to cover the capital improvements and changes in O&M costs for the twenty year planning period.

7.1.2 Alternative 2: New Fox Hills Wells and 12-Mile Pipeline

Description

This alternative would include construction of 2 new Fox Hills wells and an approximately 12-mile pipeline to connect the wells to the Town's water system. This alternative would eliminate reliance on the Musselshell River and would actually include the demolition of the existing water plant. As a result, treatment requirements and monitoring would be less stringent under the Groundwater Rule than under the Surface Water Treatment Rules, resulting in a potentially significant savings with regard to operations and maintenance costs.

Chapter 3 provided a detailed discussion of the groundwater research that has been done to date including the numerous test wells that have been completed. The only significant groundwater source of adequate water quality for drinking water (without significant treatment) that has been identified within the general vicinity of Melstone was located approximately 10 miles west of Melstone in the Fox Hills aquifer. The Town has completed a test well (Well #6T) and found a yield of 85 gpm.

As a result of the successful test well, the Town has been working towards an agreement with the landowner to complete the test well as a production well and construct a new production well (for over a year). There is a signed agreement for one production well, however, in order to comply with DEQ regulations to meet peak day demands with the largest producing well out of service, the Town would need to construct two new Fox Hills wells with a minimum yield of roughly 50 gpm. The landowner is indicating that the construction of the well was agreed to but that there must also be a negotiation for the water to be taken from the well. The landowner would like to charge for the water from the well on a usage basis, which is unacceptable to the Town as it is the state's water.

The site of the existing well is the preferred site for the production wells for several reasons. One, the availability of water quality and quantity is certain. Two, the site is located just off of a County road, which would allow much easier construction of a new pipeline. Three, power

supply is very near the existing site. Unfortunately, due to the concerns regarding obtaining an agreement from the landowner, the Town may need to consider some additional well locations.

There is a 50 gpm well that is located on the property just east of the existing test well. With the significant reduction in yield, it would not be recommended to move any further east past this point. But, due to the near proximity to the existing test well and also close location to the County Road, this site would be considered the second best option.

The third option would be to move to the northwest on the north side of the Musselshell River. Though this site appears to be in the same formation, the recharge may be more questionable as the existing test well is thought to receive a portion of its recharge from the Delphia-Melstone Ditch. Pipeline routes for this alternative would be limited primarily to along the state highway right-of-way and would require an additional mile of pipeline. Thus, the site to the northwest is considered to be a last resort for a groundwater source.

Figure 7.2 provides a map of the potential well sites along with the location of the existing test well.

If the Town is unable to secure an agreement with the existing landowner within the next few months, the Town will begin to consider these alternate well locations. The Town has been working extensively with Western Groundwater Services, a consulting hydrogeologist, and has also been in correspondence with Mr. Bob Burgentino, whom is considered a state expert of the Fox Hills formation in the area. All will be consulted prior to design and construction of any additional wells.

In considering how to connect the wells to the existing system, a well location on either the existing property or the property adjacent to the east will be assumed. There are three potential routes that have been identified for locations of the pipeline to connect the new wells to the existing water system.

Route “a”

Route “a” would follow the Old Musselshell Road (County road) to the east from the wellsite to Queens Point Road. At the intersection of Old Musselshell Road and Queens Point road, the pipeline would then be routed north along Queens Point Road. Where Queens Point Road

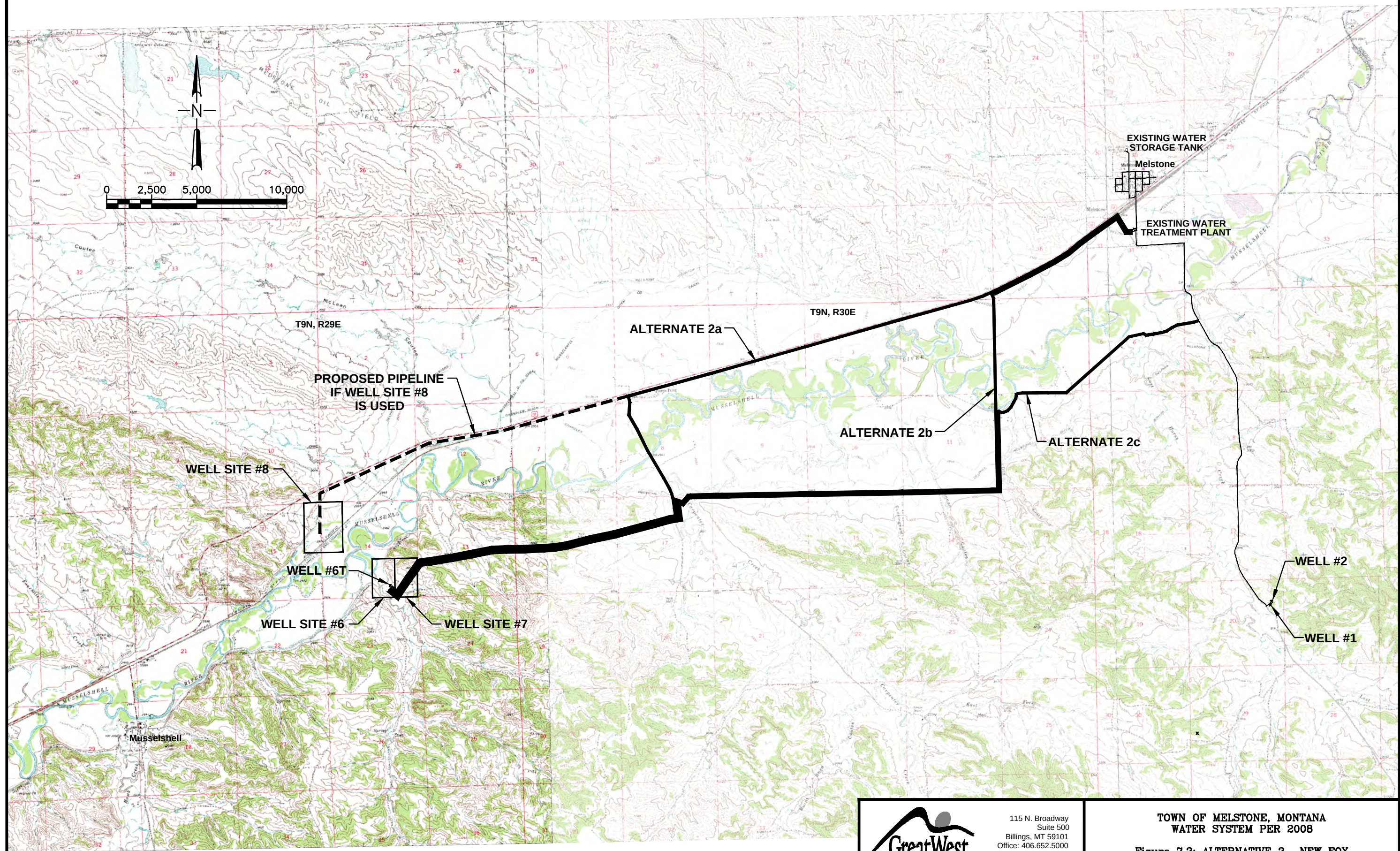
intersects State Highway 12, the pipeline would turn back to the east and continue along the state highway until reaching the intersection of the Melstone-Custer Road. At Melstone-Custer Road, the pipeline would be routed to the south until reaching the existing water treatment plant. The total length of the pipeline is approximately 12 miles and would include crossing of the Delphia-Melstone Ditch and the Musselshell River. The pipeline would ultimately discharge into the existing clearwell at the water treatment plant.

Route “b”

Similar to Route “a”, Route “b” would follow the Old Musselshell Road (County road) to the east from the wellsite to Queens Point Road. At the intersection of Old Musselshell Road and Queens Point road, the pipeline would then be routed north along Queens Point Road for a short distance until reaching the intersection with Harvey Road. The pipeline would parallel Harvey Road all the way from Queens Point Road to Highway 12. It should be noted that Harvey Road continues directly east along the section lines to the east of Section 11 (T9N, R30E) at which point the road redirects to the north. Once reaching the highway, the pipeline would be diverted to the east similar to Route A where it would then go south along the Melstone-Custer Road into the existing water treatment plant. The total length of the pipeline is approximately 11 miles and would include crossing of the Delphia-Melstone Ditch and the Musselshell River. The pipeline would ultimately discharge into the existing clearwell at the water treatment plant.

Route “c”

Similar to Routes “a” and “b”, Route “c” would follow the Old Musselshell Road (County road) to the east from the wellsite to Queens Point Road. At the intersection of Old Musselshell Road and Queens Point road, the pipeline would then be routed north along Queens Point Road for a short distance until reaching the intersection with Harvey Road. The pipeline would parallel Harvey Road all the way from Queens Point Road to Poole Road. It should be noted that Harvey Road continues directly east along the section lines to the east of Section 11 (T9N, R30E) at which point the road redirects to the north. Just before reaching the Musselshell River, the pipeline would be directed to the east along Poole Road. The major difference between this route and the first two routes is that the pipeline would then connect to the existing 4” pipeline just south of the Musselshell River (as opposed to connecting at the treatment plant). The total



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**TOWN OF MELSTONE, MONTANA
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**Figure 7.2: ALTERNATIVE 2 –NEW FOX
HILLS WELLS & 12 MILE PIPELINE**

length of the pipeline is approximately 11 miles and would include crossing of the Delphia-Melstone Ditch but not river.

Figure 7.2 shows a map of the proposed routes.

The major advantages of Routes “a” and “b” are that the pipelines would be located entirely within County and State right-of-ways. Although easements would need to be permitted through the respective governmental agencies, there are no problems anticipated in obtaining the easements. Permitting through the state would be completed once plans were designed as that is a requirement of their permit. However, through early telephone correspondence with Jean Riley of the Montana Department of Transportation, no unforeseeable problems are anticipated.

Similarly, the County will need to know the final route before any permits would be issued. The County issued a permit for construction of the 5-mile pipeline along the Melstone-Custer Road in 2005. After construction, the County was most concerned about the reconstruction of the road. Thus, plans and specifications would be very specific as to the requirements of reconstruction where the road was impacted. In that regard, the County would also be very involved in the design process to assure that the specified restoration would meet all of their specifications as well.

As noted above, Route “c” has the advantage of eliminating the crossing of the Musselshell River. The route would connect into the existing pipeline prior to the crossing. However, the major disadvantage is that the pipeline would parallel Poole Road, which is a private road and does not connect through. Easements would be much harder and more costly to obtain. In addition, there would be almost two miles of pipeline that would be outside of a road right-of-way on essentially undisturbed land and the 6-inch line would tie into a smaller 4-inch line. Calculations indicate that the smaller line is adequate for the relatively short distance to the treatment plant, but there will be a significant amount of headloss. Furthermore, if there was a break between the tie-in location and the treatment plant, the Town would have no water supply. With Routes “a” and “b” above, if either well pipeline were to fail and need repair, water supply would still be available from the other well pipeline.

In addition to the cost of wells and the pipeline for each of these routes, other associated improvements with this alternative would be the construction of a new wellhouse and installation of well controls, modification of the existing treatment plant (demolition of existing treatment plant and constructing divider to only heat clearwell portion of building), and connection of Well #2 to the existing system. Since the well water will require no other treatment outside of disinfection, the wellhouse will be a relatively small building, primary needed to house the controls and any future disinfection required. Each of the wells will feed into a common header at the wellhouse to allow for easy point of entry for future disinfection. The raw water will be directed into the 12-mile pipeline to the water treatment plant (clearwell) where it will be disinfected.

Since the well locations, treatment plant, and tank are miles apart, a telemetry system is the most obvious form of controls. Due to the lack of line of sight, a relay station would be required. Because telemetry can be very costly, it is included in the project budget. However, there is one high only one high point approximately 1 mile from the wells and there may be potential for some cost savings if a pressure tank were used either at the wells or at the high point. The pressure would ensure that the pipeline is always pressurized (the pressure at the high point would be kept to a minimum of 20 psi). After the high point, the flow would be entirely gravity flow and a flow control valve could be used at the plant to regulate the flow.

Ultimately, with either a telemetry system or pressure tanks, the wells will be operated based upon system pressures at the water treatment plant, which are directly related to the water level in the storage tank. As pressure in the distribution system drops to a predetermined level (i.e. tank level lowers to a certain elevation), one well would turn on. If pressures continued to drop, the second well would turn on. As pressures begin to rise to preset levels, the wells would begin to turn off in the opposite order that they started. With the various tank levels, pressures within the distribution will range from approximately 39 psi at the highest elevations with the tank low to 75 psi at the lowest elevations with the tank full.

Pipeline calculations are included in Appendix K. Based upon calculations, it was concluded that a 6-inch pipeline would be adequate for carrying the peak day flows of 75 gpm. Assuming HDPE pipe (DR 13.5), the headloss through the pipeline would be approximately 57 feet.

Pressures would range throughout the pipeline from a minimum of approximately 20 psi to a maximum of approximately 91 psi with the tank full.

Calculations were also completed for 4-inch and 8-inch pipe as well. However, the 4-inch pipe had an extremely high headloss (over 460 feet) and resulted in pressures of between 80 psi and 230 psi. It is much more economical to provide the 6-inch pipe lower pressure pipe than the 4-inch high pressure pipe. Furthermore, using an 8-inch would decrease the headloss throughout the pipeline, but would actually cause pressures at the treatment plant of over 100 psi. Since there would be no reduction in pressure class between the 6-inch and 8-inch pipelines and the 8-inch pipe costs more than the 6-inch pipe, there is no advantage to using an 8-inch pipeline. Therefore, 6-inch HDPE is considered the most economical and practical pipe for the 12-mile pipeline.

It is important to note that this alternative would also include connecting Well #2 to the existing system, modifying the existing well control vault, and adding new air release valves along the existing 5-mile pipeline. Well #2 is located approximately 100 feet from Well #1, so actual connection will be relatively easy. In addition to the connection, the well control vault will need to be modified. The well control vault needs a permanent gas monitor and ventilation system. Thus, costs for the alternative include this reconstruction. Similarly, there are some high spots within the 5-mile pipeline that are allowing air to build up and cause very high headloss. Thus, cost estimates will also include some additional air release vaults along this pipeline.

Schematic Layout

Figure 7.2 presented earlier provides a layout of the proposed alternative including the potential wellsites and pipeline routes. As indicated by the drawing, Wellsite #6 is the preferred wellsite. Wellsite #7 is the second choice and Wellsite #8 is a last resort. The actual wellsite will be dictated by the ability to obtain agreements with the various landowners.

Operational Requirements

Operational requirements for this alternative are significantly less than that of a water treatment plant. Operation of the system will be automated through a new telemetry system. Thus, operations of the new well and pipeline will essentially be limited to inspecting the wells of a

regular basis, adjusting system settings as needed, and maintaining an adequate supply of chlorine. Obviously, other operations outside of the treatment plant will need to be maintained such as maintaining the distribution system, water storage tank, reading meters, etc.

It is anticipated that the time for operations and maintenance can be essentially cut in half. Considering the existing system requires a full 40 hour work week and the new system will require approximately 20 hours per week, the resultant savings in Operator time is approximately 20 hours per week. Bearing in mind that approximately half of the Operator's wages come from the actual water system budget and an hourly wage of \$15/hour, this results in a total cost savings of approximately \$7,800 ($\$15/\text{hr} \times 20 \text{ hr/wk} \times 52 \text{ wk/yr} \times \frac{1}{2}$).

Energy Requirements

Calculations are included in Appendix M and Table 7.4 provides a summary of anticipated energy usage and costs associated with the operation of the water supply and treatment system considered in this alternative. In order to estimate actual costs as a result of the energy usage, it will be assumed that the energy will cost \$0.08 per kW-hour. As presented in the table below, the overall cost of power for the operations of the proposed alternative is estimated to be \$4,442 per year.

Table 7.4: Energy Usage for Alternative 2

Component	Energy Usage (kW-hr/year)	Estimated Usage Costs (\$/kW-hr)	Estimated Energy Costs (\$/year)
Wells #1 and #2	19,245	\$0.08	\$1,540
Wells #6 and #7	28,782	\$0.08	\$2,303
Misc. Costs (Building Heat, etc.)	---	---	\$600
Total	48,027	\$0.16	\$4,442

A comparison of projected energy costs versus existing energy costs will be discussed as part of the Annual O&M Costs.

Regulatory Compliance and Permits

Actual design criteria and application regulations were discussed in detail in Chapter 4. The proposed alternative would be designed and constructed to meet all design criteria, including Circular DEQ-1. Plans and specifications would need to be reviewed and approved by the Montana Department of Environmental Quality before bidding and construction could begin.

Because more than one acre will be disturbed as a result of the proposed alternative, a stormwater discharge permit will be required during construction. The selected contractor would be responsible for obtaining a stormwater permit, as would be indicated in the project specifications.

Land Requirements

In addition to the purchase or easement required for the actual construction of the production wells, the Town will also need to secure an easement for construction of the 12-mile pipeline. The pipeline routes were discussed in detail as part of the “Description.” Routes “a” and “b” would parallel existing roads and would be within disturbed land. Route “c” would involve approximately 2 miles of undisturbed, private land. Thus, easement will likely be much more difficult to obtain. Overall land use as a result of the alternative would not change as the entire pipeline would be buried with the exception of the small area required for a wellhouse (which is not located on prime farmland).

Environmental Considerations

General environmental conditions were discussed in Section 2.4. There are no major environmental problems associated with this alternative as all 12-miles of pipeline will be buried and land use will not change. There is a small area of land that will be required for the wellhouse. However, the building will be very small and will not be located on prime farmland. Routes “a” and “b” will be located within previously disturbed areas and Route “c” would impact approximately 2 miles of disturbed area (though not through any prime farmland or wetlands) and would likely require a cultural survey.

If there was interest from farmers and ranchers along the length of the pipeline, the Town could add a disinfection system at the wellhouse and allow the additional connections along the route. Not only would the water benefit the farmers, but the income could also benefit the Town in

maintaining the system. The wells and pipeline would be designed for projected growth and demands, thus, the Town would have the extra capacity to accommodate the additional users.

Construction Problems

This alternative is considered technically feasible and no unique construction problems are anticipated. HDPE pipe is extremely durable and is an excellent product for constructing rural pipelines (as proven by the Town's existing 5-mile rural pipeline).

Cost Estimates

Project Costs:

Total capital costs for Wells #6 and #7 are presented in Table 7.5 and Table 7.6, respectively. Total capital costs for Alternatives 2a, 2b, and 2c (including well costs) are presented in Tables 7.7, 7.8, and 7.9, respectively. The costs include those costs for construction, engineering, and administration. Since the Town intends to apply for additional grant funding in the 2008 biennium, the project is anticipated to be constructed in 2010 and project costs have been accordingly inflated.

Annual O&M Costs:

Operations and maintenance were discussed as part of the project description and again as part of the "Operational Requirements" section. It was determined this alternative would result in a total savings of Operator costs of roughly \$7,800 per year. Energy costs were also discussed previously as part of the "Energy Requirements" discussion. It is estimated that the total energy usage will amount to an annual cost of roughly \$4,442. In 2007, the Town expended a total of \$4,900 in electrical bills, which amounts to a yearly savings of \$458.

Other costs to consider would be the changes in chemical costs. In 2007, the Town spent nearly \$4,700 in chemicals alone. The new wells will eliminate a major portion of the chemical costs as there will be no need for coagulant and polymer. The Town will still need to purchase the sodium hypochlorite for disinfection purposes. Calculations are included in Appendix M, but it was estimated that the disinfectant chlorine would cost approximately \$880 per year. Thus, the Town is anticipated to see a net savings of \$3,820 per year (\$4,700 - \$880).

Table 7.5: Capital Costs for Well #6

Item	Unit	Quantity	Unit Cost ¹	Total
Pilot Borehole	LF	300	\$23.50	\$7,050
Complete Borehole	LF	300	\$30.00	\$9,000
Well Casing	LF	240	\$35.00	\$8,400
Well Screen	LF	60	\$100.00	\$6,000
Development	HR	10	\$175.00	\$1,750
Temporary Pumping System	LS	1	\$8,500.00	\$8,500
Pumping Test Hourly	HR	78	\$50.00	\$3,900
Water Quality Analysis	LS	1	\$2,000.00	\$2,000
Pump, Motor, and Electrical Work	LS	1	\$30,000.00	\$30,000
Pitless Unit	EA	1	\$9,500.00	\$9,500
Level Transmitter	EA	1	\$3,000.00	\$3,000
Generator	EA	1	\$22,000.00	\$22,000
Switchover for Generator	EA	1	\$6,000.00	\$6,000
Meter	EA	1	\$3,000.00	\$3,000
Testing and Reporting for Water Rights	LS	1	\$12,000.00	\$12,000
Sub-Total: Direct Construction Cost				\$132,100

Table 7.6: Capital Costs for Well #7

Item	Unit	Quantity	Unit Cost ¹	Total
Pilot Borehole	LF	300	\$23.50	\$7,050
Complete Borehole	LF	300	\$30.00	\$9,000
Well Casing	LF	240	\$35.00	\$8,400
Well Screen	LF	60	\$100.00	\$6,000
Development	HR	10	\$175.00	\$1,750
Temporary Pumping System	LS	1	\$8,500.00	\$8,500
Pumping Test Hourly	HR	78	\$50.00	\$3,900
Water Quality Analysis	LS	1	\$2,000.00	\$2,000
Pump, Motor, and Electrical Work	LS	1	\$30,000.00	\$30,000
Pitless Unit	EA	1	\$9,500.00	\$9,500
Level Transmitter	EA	1	\$3,000.00	\$3,000
Connecting to Existing System	LS	1	\$5,000.00	\$5,000
Meter	EA	1	\$3,000.00	\$3,000
Testing and Reporting for Water Rights	LS	1	\$12,000.00	\$12,000
Sub-Total: Direct Construction Cost (2008)				\$109,100

Table 7.7: Capital and Life Cycle Costs for Alternative 2a

Item	Unit	Quantity	Unit Cost ¹	Total
Well #6 (costs previously calculated)	LS	1	\$132,100	\$132,100
Well #7 (costs previously calculated)	LS	1	\$109,100	\$109,100
Traffic Control	LS	1	\$15,000	\$15,000
Land Acquisition	LS	1	\$20,000	\$20,000
HDPE Rural Pipeline	LF	66,000	\$13.50	\$891,000
River Crossing	LS	1	\$15,000	\$15,000
Delphia Ditch Crossing	LS	1	\$5,000	\$5,000
Air Valve in Meter Pit	EA	35	\$2,500	\$87,500
Gate Valve	EA	13	\$1,500	\$19,500
Flushing Hydrants	EA	13	\$2,000	\$26,000
Access Road	LS	1	\$15,000	\$15,000
Wellhouse	LS	1	\$85,000	\$85,000
Extending Power to Wellsite	LF	1,800	\$10	\$18,000
Well Controls	LS	1	\$105,000	\$105,000
Connect Well #2 to Existing System	LS	1	\$7,500	\$7,500
Modifications to Well Control Vault	LS	1	\$22,000	\$22,000
Add Air Release Valves to Existing Pipeline	EA	1	\$2,500	\$2,500
Modification of Existing Water Treatment Plant	LS	1	\$40,000	\$40,000
Sub-Total: Direct Construction Cost				\$1,615,200
Mobilization, Bonding, Etc.		10.0%		\$161,520
Subtotal: Construction Cost (2008)				\$1,776,720
Subtotal: Construction Cost (2010)²				\$1,892,249
Contingency		10.0%		\$189,225
Total Construction Cost				\$2,081,474
Engineering and Construction Administration		16.0%		\$333,036
Grant/Loan Administration		2.0%		\$41,629
Total Capital Costs				\$2,456,140
<u>O&M Costs</u>				
Estimated Change to Annual O&M Costs				(\$12,078)
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				(\$181,150)
20 Year Life Cycle Costs				\$2,274,989

¹ Estimated unit costs are based upon estimates from suppliers and bid tabs for similar projects throughout Eastern Montana.

² The ENR 2008 Forecast for the Construction Cost Index is +3.2%, so capital costs are projected to an anticipated construction date in 2010 using a 3.2% inflation rate.

Table 7.8: Capital and Life Cycle Costs for Alternative 2b

Item	Unit	Quantity	Unit Cost ¹	Total
Well #6 (costs previously calculated)	LS	1	\$132,100	\$132,100
Well #7 (costs previously calculated)	LS	1	\$109,100	\$109,100
Traffic Control	LS	1	\$6,000	\$6,000
Land Acquisition	LS	1	\$20,000	\$20,000
HDPE Rural Pipeline	LF	58,080	\$13.50	\$784,080
River Crossing	LS	1	\$15,000	\$15,000
Delphia Ditch Crossing	LS	1	\$5,000	\$5,000
Air Valve in Meter Pit	EA	30	\$2,500	\$75,000
Gate Valve	EA	11	\$1,500	\$16,500
Flushing Hydrants	EA	11	\$2,000	\$22,000
Access Road	LS	1	\$15,000	\$15,000
Wellhouse	LS	1	\$85,000	\$85,000
Extending Power to Wellsite	LF	1,800	\$10	\$18,000
Well Controls	LS	1	\$105,000	\$105,000
Connect Well #2 to Existing System	LS	1	\$7,500	\$7,500
Modifications to Well Control Vault	LS	1	\$22,000	\$22,000
Add Air Release Valves to Existing Pipeline	EA	1	\$2,500	\$2,500
Modification of Existing Water Treatment Plant	LS	1	\$40,000	\$40,000
Sub-Total: Direct Construction Cost				\$1,479,780
Mobilization, Bonding, Etc.		10.0%		\$147,978
Subtotal: Construction Cost (2008)				\$1,627,758
Subtotal: Construction Cost (2010)²				\$1,733,601
Contingency		10.0%		\$173,360
Total Construction Cost				\$1,906,961
Engineering and Construction Administration		16.0%		\$305,114
Grant/Loan Administration		2.0%		\$38,139
Total Capital Costs				\$2,250,215
<u>O&M Costs</u>				
Estimated Change to Annual O&M Costs				(\$12,078)
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				(\$181,150)
20 Year Life Cycle Costs				\$2,069,064

¹ Estimated unit costs are based upon estimates from suppliers and bid tabs for similar projects throughout Eastern Montana.

² The ENR 2008 Forecast for the Construction Cost Index is +3.2%, so capital costs are projected to an anticipated construction date in 2010 using a 3.2% inflation rate.

Table 7.9: Capital and Life Cycle Costs for Alternative 2c

Item	Unit	Quantity	Unit Cost ¹	Total
Well #6 (costs previously calculated)	LS	1	\$132,100	\$132,100
Well #7 (costs previously calculated)	LS	1	\$109,100	\$109,100
Traffic Control	LS	1	\$6,000	\$6,000
Land Acquisition	LS	1	\$40,000	\$40,000
HDPE Rural Pipeline	LF	69,960	\$13.50	\$944,460
River Crossing	LS	1	\$15,000	\$15,000
Delphia Ditch Crossing	LS	1	\$5,000	\$5,000
Air Valve in Meter Pit	EA	37	\$2,500	\$92,500
Gate Valve	EA	13	\$1,500	\$19,500
Flushing Hydrants	EA	13	\$2,000	\$26,000
Access Road	LS	1	\$15,000	\$15,000
Wellhouse	LS	1	\$85,000	\$85,000
Extending Power to Wellsite	LF	1,800	\$10	\$18,000
Well Controls	LS	1	\$105,000	\$105,000
Connect Well #2 to Existing System	LS	1	\$7,500	\$7,500
Modifications to Well Control Vault	LS	1	\$22,000	\$22,000
Add Air Release Valves to Existing Pipeline	EA	1	\$2,500	\$2,500
Modification of Existing Water Treatment Plant	LS	1	\$40,000	\$40,000
Sub-Total: Direct Construction Cost				\$1,684,660
Mobilization, Bonding, Etc.		10.0%		\$168,466
Subtotal: Construction Cost (2008)				\$1,853,126
Subtotal: Construction Cost (2010)²				\$1,973,624
Contingency		10.0%		\$197,362
Total Construction Cost				\$2,170,986
Engineering and Construction Administration		16.0%		\$347,358
Grant/Loan Administration		2.0%		\$43,420
Total Capital Costs				\$2,561,764
<u>O&M Costs</u>				
Estimated Change to Annual O&M Costs				(\$12,078)
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				(\$181,150)
20 Year Life Cycle Costs				\$2,380,613

¹ Estimated unit costs are based upon estimates from suppliers and bid tabs for similar projects throughout Eastern Montana.

² The ENR 2008 Forecast for the Construction Cost Index is +3.2%, so capital costs are projected to an anticipated construction date in 2010 using a 3.2% inflation rate.

Table 7.10 provides a summary of the net changes in O&M costs anticipated as a result of this project.

Table 7.10: Changes in O&M Costs for Alternative 2

Item	Well O&M Costs
Personnel Costs	-\$7,800
Energy Costs	-\$458
Chemical Costs	-\$3,820
Total Change in O&M Costs	-\$12,078

Present Worth Analysis:

Prior to proceeding with a present value analysis, a reasonable discount rate should be determined. The discount rate is used to see how much money you need in the bank today to complete later improvements (i.e. the value of money invested today for later improvements). It relates inflation with interest rates. The higher the discount rate, the less significant future costs will appear to be in a present worth analysis.

In the early 1980's, interest rates were much higher than inflation and discount rates of up to 8% were reasonable. In the later 1980's and early 1990's, 5% to 6% was more reasonable, but discount rates dropped after that to roughly 3% to 4%. The formula for calculating a discount rate, where i = interest rate and e = inflation rate is: $(i-e)/(1+e)$. Using $i = 6\%$ and $e = 3\%$, the discount rate is calculated to be just under 3%. The same would apply if figures of 5.25% and 2.25% were used, which is arguably the best figures for the current year. This shows that money invested today that increases 6% per year will have an effective buying power continuously reduced by an inflation rate assumed at 3%. See Appendix N for research on interest and inflation rates and a table demonstrating the use of the proposed discount rate.

A present worth analysis was presented in Table 7.7, 7.8, and 7.9 for Alternative 2a, 2b, and 2c, respectively (as part of the cost estimates). The tables show the total life cycle costs for each alternative, where life cycle costs include the total amount needed to be invested today to cover the capital improvements and changes in O&M costs for the twenty year planning period.

7.2 Selection of Preferred Alternative

Each of the alternatives reviewed in the Alternative Analysis is designed to meet the design criteria and applicable regulations identified in the Alternative Screening. This section will examine advantages and disadvantages of each in terms of technical feasibility, environmental impacts, financial feasibility, public health and safety, operational and maintenance considerations, and public comment.

7.2.1 Ranking Criteria

A decision matrix to compare each alternative objectively against the other will be developed to select the preferred alternative. Each alternative will be given a score ranging from 0 to 10 for a number of criteria, with 0 representing a negative impact and 10 representing the maximum benefit to the community. The alternatives will begin with a score of 5 for each criterion, and then the score will be adjusted up or down relative to the benefit of the particular alternative in relation to the other alternatives.

In addition to scoring each alternative, the criteria themselves will be weighted in relation to one another. Weighting factors ranging from 1 to 10 will be used to give greater importance to items such as cost. Weighting factors are appropriate, as often times higher investments are made to overcome other problems such as reliability or to mitigate problems with technical feasibility or environmental concerns.

Technical Feasibility

Alternatives that were not technically feasible were removed from consideration during the Alternative Screening. Consequently, the alternatives discussed in the Alternative Analysis would be scored very similarly in a decision matrix based solely on engineering. However, issues with land acquisition often supersede the black-and-white world of engineering. This ranking category will include the feasibility of acquiring sufficient land in terms of lease, right-of-way, and/or land purchases. Although these are not strict engineering issues, problems with land acquisition can greatly impact a project's overall feasibility and require that land issues be given a very serious consideration. Since the alternatives could be impacted significantly by land issues (i.e. well construction), this criterion will have a slightly higher weighting factor of 6.

Environmental Impacts

Consideration for land disturbance and stormwater runoff should be considered, but long term, detrimental environmental impacts are relatively low for all of the alternatives. Thus, this criterion will be given a lower weighting factor of 3.

Financial Feasibility

Costs are a paramount concern in all PERs, since all alternatives must already meet the minimum health and safety requirements and state and federal regulations before they may even be considered as viable. To a large extent “costs” must also include mitigation for health and safety concerns, operations, and environmental impact in order to make each alternative technically feasible. Life cycle costs also include both capital and O&M costs. Accordingly, this criterion will be provided with the maximum weighting factor of 10. This represents nearly 30% of the total weighting.

In addition to providing the maximum emphasis on costs, a method must be utilized to provide an objective comparison of costs for each alternative relative to one another and not just an overall comparison. Given a range of costs for various alternatives, the relative cost of any alternative can be determined using the lowest cost and the highest cost from the range of costs with the following equation:

$$5 \times [(Lowest\ Cost) / (Cost) + (Highest\ Cost - Cost) / (Highest\ Cost)]$$

It should be noted that the costs are the life cycle costs, which include the overall cost for capital and O&M expenses over the course of 20 years.

For example, if a number of alternatives were compared having costs of \$500,000, \$1,000,000 and \$10,000,000, the above equation would provide scores of 9.8, 7.8 and 0.3, respectively. The utilization of a formula to score the 20 year life cycle costs in the matrix eliminates any subjectivity. Thus, the above formula provides a score with respect to *relative* degree of differences in cost, and not just an overall comparison. This allows two scenarios relatively close in cost to receive similar scores, while a “way-out” alternative is appropriately scored far lower.

Public Health and Safety

Alternatives that do not meet the public health and safety requirements as required by the state and federal governments were eliminated during the Alternative Development. The alternatives retained for the Alternative Analysis are designed to meet public health and safety laws, so the scoring for each alternative under this criterion would be expected to be fairly high. Due to the importance of this criterion, it will be provided with a weighting factor of 8.

Operations and Maintenance

Operations and maintenance are clearly an important issue when considering any improvement. However, the cost impact of operations is largely covered by the life cycle cost. Further consideration should be given when considering the appropriateness of technologies with respect to the limited resources and manpower available to the Town.

The Town has limited resources and manpower, and some alternatives may have O&M requirements that drastically tax those limited resources creating deficiencies in other areas. Town personnel also have a much more intrinsic knowledge of the water system than that of the average resident or even Council members. Thus, priorities identified by the operators and Council must be given some weight. Thus, this criterion will be provided with a weighting factor of 7.

Public Comments

Efforts such as public hearings are ways to identify public opinion and perceptions. Costs are always a concern with consumers, but the health and safety of their families is just as important. Thus, this criterion will be given a weighting factor of 4.

7.2.2 Scoring of Alternatives

Two major alternatives were retained from the Alternative Screening for more detailed analysis in the Alternative Analysis section. However, Alternative 2 included three separate sub-alternatives, resulting in a total of four alternatives to be scored in this section. The alternatives to be scored are as follows:

- Alternative 1: Expand Raw Water Storage and Provide Microfiltration
- Alternative 2a: Fox Hills Wells with Route “a” Pipeline
- Alternative 2b: Fox Hills Wells with Route “b” Pipeline
- Alternative 2c: Fox Hills Wells with Route “c” Pipeline

Technical Feasibility

All alternatives are considered technically feasible, though the wells would be considered the “simplest” form of supply and treatment. A microfiltration system will be very “technically” involved. Not only will the finished microfiltration system need to be able to meet all state and federal regulations including the surface water treatment rules, but special consideration will also need to be given to the Town’s hard water, high organics, algae problems, and water chemistry (including potential blending of well water and surface water).

Another major difference between the well alternatives and the treatment plant is the feasibility of land acquisition. The microfiltration system could be constructed entirely within the Town’s existing property, eliminating the need for land acquisition. The well alternatives on the other hand will require a purchase and/or lease agreement for construction of the wells in addition to an easement for approximately 12-miles of pipeline. The well agreement will be considered to most difficult to obtain as the Town has been negotiating for over a year with one land owner. All pipeline easements for Alternatives 2a and 2b would be within State and/or County right-of-way and there are no major obstacles anticipated. Route 2c on the other hand includes approximately 2 miles of easement through private land, which will be more difficult to obtain.

Consequently, the alternatives will be scored as follows:

- Alternative 1 2 pts
- Alternative 2a 6 pts
- Alternative 2b 6 pts
- Alternative 2c 4 pt

Environmental Impacts

Most of the alternatives are anticipated to have minimal long-term detrimental environmental impacts. Alternative 1 would involve only land that the Town already owns and has been

disturbed for construction of the existing water system. Alternatives 2a and 2b would include 12-miles of pipeline that would be located within existing rights-of-way.

In terms of long-term impacts, the well alternatives would actually be beneficial to the environment as the Town would no longer be drawing water out of the Musselshell River. This will directly benefit the aquatic and biological life in and near the river.

The major environmental concern would be Alternative 2c as it would involve construction of approximately 2 miles of pipeline in essentially undisturbed ground.

Consequently, the alternatives will be scored as follows:

- Alternative 1 5 pts
- Alternative 2a 7 pts
- Alternative 2b 7 pts
- Alternative 2c 2 pts

Financial Feasibility

Table 7.11 provides a summary of scoring for each alternative based upon the life cycle costs.

Table 7.11: Scoring of Alternatives Based on Life Cycle Costs

Life Cycle Costs for all Alternatives		Matrix Score	High/Low Costs
1	\$1,769,212	7.1	Lowest: \$2,069,064
2a	\$2,274,989	4.8	Highest: \$2,380,613
2b	\$2,069,064	5.7	
2c	\$2,380,613	4.3	

Public Health and Safety

All alternatives will improve the public health and safety. Alternative 1 will provide benefit by reconstructing the raw water storage ponds to ensure reasonable raw water storage will be available to the Town during drought years. In addition, the microfiltration plant will ensure the water is adequately treated and will bring the Town into compliance with all Surface Water Treatment Rules. The wells will also benefit the Town as they will completely eliminate the

reliance on the Musselshell River, ensuring that there is an adequate water source water supply. It can also be argued that there is less chance of water contamination through the well water supply as the area around the new wells will be protected versus the Musselshell River, which is accessible to the public.

Consequently, the alternatives will be scored as follows:

- Alternative 1 6 pts
- Alternative 2a 8 pts
- Alternative 2b 8 pts
- Alternative 2c 8 pts

Operational and Maintenance Considerations

One of the most significant differences between the alternatives is with regard to operations and maintenance. There is a tremendous cost savings to the Town for the well alternatives over the microfiltration treatment plant. Actual O&M costs were included as part of the life cycle costs, thus, have already been scored to an extent.

However, along with O&M costs, the Town must also consider the burden of the operations and maintenance of the alternatives with regard to available resources. The current operator is already certified as a treatment plant operator and is required to be available full time. Thus, the new microfiltration plant would not represent a change in that regard. However, the Town has not been able to find an adequate back-up operator for the treatment plant, which represents a challenge for the system when the operator is out of town. The well alternatives would be much “simpler” to operate allowing the Town to have more potential to find an adequate backup operator. Alternatives 2a and 2b involve pipeline within existing County and state highway rights-of-way, but Alternative 2c would involve approximately 2 miles of pipeline on private land. Thus, access to the pipe would be more difficult to access.

Consequently, the alternatives will be scored as follows:

- Alternative 1 6 pts
- Alternative 2a 9 pts
- Alternative 2b 9 pts

- Alternative 2c 7 pts

Public Comments

Typically the primary concerns for residents are costs and what impact the project will have on user fees. Although this was expressed as a concern during the PER hearing, there was also major concern for assurance of adequate water supply. Because the residents have been faced with drought conditions and the river has actually stopped flowing in 4 of the last 7 years, the residents seem to strongly support a groundwater supply.

Consequently, the alternatives will be scored as follows, where scores favor the least expensive groundwater supply alternatives:

- Alternative 1 2 pts
- Alternative 2a 3 pts
- Alternative 2b 4 pts
- Alternative 2c 2 pts

7.2.3 Decision Matrix and Selection of Alternative

Using the criteria, scoring and weighting factors previously described, Table 7.12 was established to provide a succinct comparison of the alternatives. Based upon the decision matrix, the highest ranking alternative was Alternative 2b: Fox Hills Wells with Route “b”.

Table 7.12: Decision Matrix for Alternatives

Criteria	Weight	Alternative 1		Alternative 2a		Alternative 2b		Alternative 2c	
		Score	Wtd.	Score	Wtd.	Score	Wtd.	Score	Wtd.
Technical Feasibility	6	2.0	12	6.0	36	6.0	36	4.0	24
Environmental Impacts	3	5.0	15	7.0	21	7.0	21	2.0	6
Life Cycle Cost	10	7.1	71	4.8	48	5.7	57	4.3	43
Public Health and Safety	8	6.0	48	8.0	64	8.0	64	8.0	64
Operation and Maintenance	6	6.0	36	9.0	54	9.0	54	7.0	42
Public Opinion	4	2.0	8	3.0	12	4.0	16	2.0	8
TOTAL	---	190		235		248		187	
RANK	---	3		2		1		4	
It is important to note that the above scoring and weighting are subjective. Alternatives that score overall within 10 pts of each other may essentially hold the same degree of preference.									

It is important to note that the Town has been working towards a land agreement with the land owner of Wellsite #6 for over a year. Due to some concerns of reaching an amenable agreement, two alternate wellsite locations have been identified. Wellsite #7 is adjacent to Wellsite #6, thus, proposed improvements would be nearly identical. If Wellsite #8 were used instead, the project would require approximately an additional mile of piping and the only route available would be along the Highway 12 right-of-way. In this event, cost estimates would need to be revised and the funding strategy reconsidered. In any case, the preferred alternative is to provide a groundwater source. If no agreement could be reached with any of the land owners, then the Town would fall back to the next preferred alternative of microfiltration.

In summary, the Town decided on the following course of action in accordance with the priority matrix:

- Plan A: Construct 2 new Fox Hills wells at Wellsite #6 and/or Wellsite #7 and provide a new pipeline following Route “b” --- Alternative 2b (#1 ranking alternative)
- Plan B: Construct 2 new Fox Hills wells at Wellsite #8 and provide a new pipeline following Route “a” --- Alternative 2a (#2 ranking alternative)
- Plan C: Construct a new microfiltration plant with a new raw water storage pond and sedimentation pond (#3 ranking alternative)

8.0 DETAILED DESCRIPTION OF PREFERRED ALTERNATIVE

Chapter 7 provided a detailed analysis of all feasible alternatives and provided a priority matrix to rank the alternatives. Due to concerns regarding feasibility of obtaining necessary land agreements, the Town has specifically identified the top three alternatives (Plan A, Plan B, and Plan C) in case the land agreements cannot be obtained.

In any event, the preferred alternative is the “Plan A” improvements and consists of Alternative 2b with construction of 2 new production wells on Wellsite #6 or Wellsite #7 along with construction of a 12-mile pipeline along Route “b”. A map of the preferred alternative is presented in Figure 8.1. The following subsections are presented to provide a more detailed discussion of the preferred alternative.

8.1 Site Location and Characteristics

Chapter 3 provided a detailed discussion of the groundwater research that has been done to date including the numerous test wells that have been completed. The only significant groundwater source of adequate water quality for drinking water (without significant treatment) that has been identified within the general vicinity of Melstone was located approximately 10 miles west of Melstone in the Fox Hills aquifer. The Town has completed a test well (Well #6T) and found a yield of 85 gpm. Thus, the Town has been working towards an agreement with the landowner to complete the test well as a production well and construct a new production well (for over a year) at the same site. There is a signed agreement for one production well, however, in order to comply with DEQ regulations to meet peak day demands with the largest producing well out of service, the Town would need to construct two new Fox Hills wells with a minimum yield of roughly 50 gpm. The landowner is indicating that the construction of the well was agreed to but that there must also be a negotiation for the water to be taken from the well. In essence, the landowner would like to charge for the water from the well on a usage basis. Therefore, it is unclear as to whether or not the site can be used. Therefore, several potential wellsites have been identified as indicated on Figure 8.1 and are listed below in the order of their preference.

Well Site #6

The site of the existing well is the preferred site for the production wells for several reasons. One, the availability of water quality and quantity is certain. Two, the site is located just off of a County road, which would allow much easier construction of a new pipeline. Three, power supply is very near the existing site. Unfortunately, due to the concerns regarding obtaining an agreement from the landowner, the Town may need to consider some additional well locations.

Well Site #7

There is a 50 gpm well that is located on the property just east of the existing test well. With the significant reduction in yield, it would not be recommended to move any further east past this point. But, due to the near proximity to the existing test well and also close location to the County Road, this site would be considered the second best option.

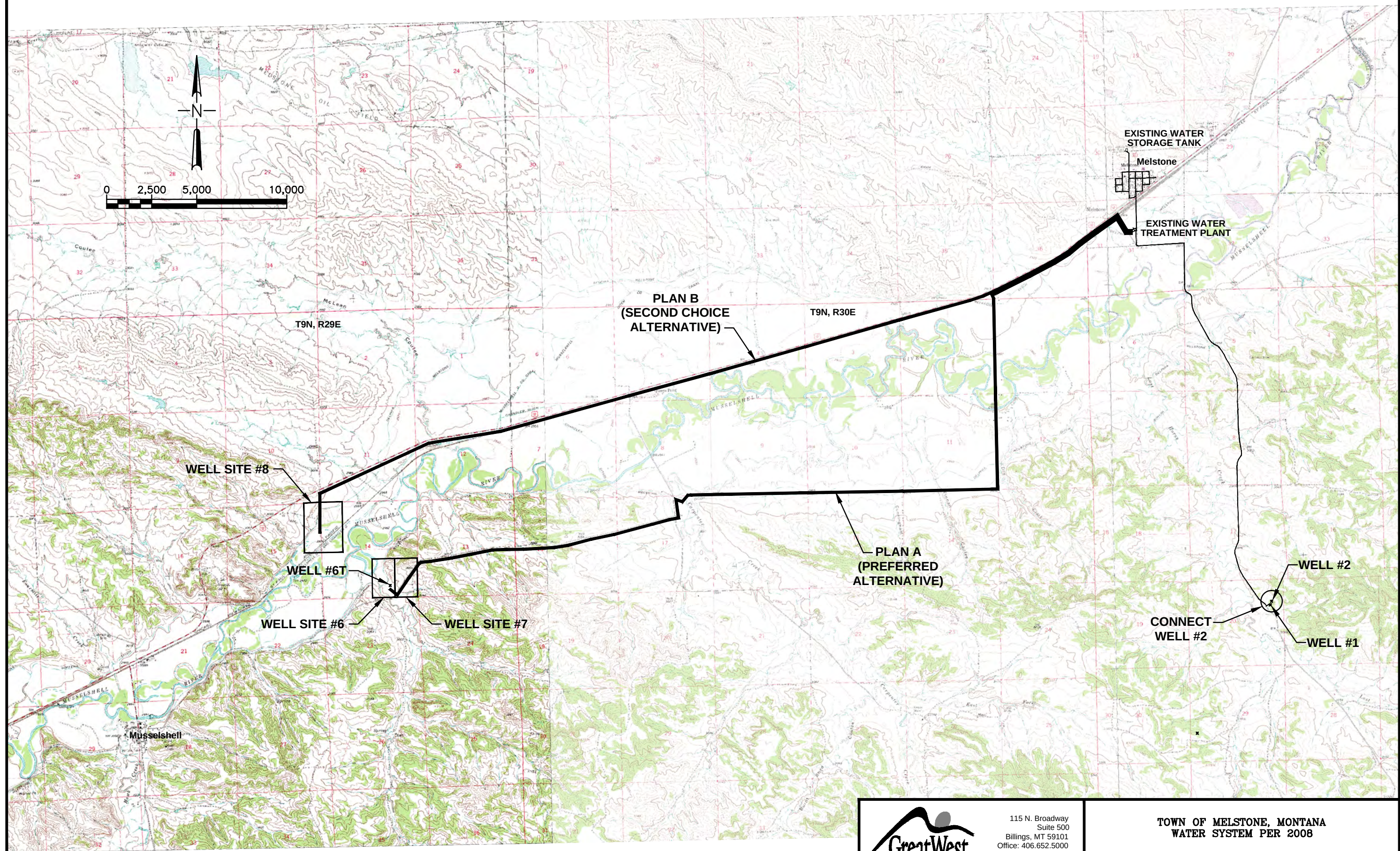
Well Site #8

The third option would be to move to the northwest on the north side of the Musselshell River. Though this site appears to be in the same formation, the recharge may be more questionable as the existing test well is thought to receive a portion of its recharge from the Delphia-Melstone Ditch. Pipeline routes for this alternative would be limited primarily to along the state highway right-of-way and would require an additional mile of pipeline. Thus, the site to the northwest is considered to be a last resort for a groundwater source.

8.2 Operational Requirements

Operational requirements for this alternative are significantly less than that of a water treatment plant. Since the well locations, treatment plant, and tank are miles apart, a telemetry system is the most obvious form of controls. Due to the lack of line of sight, a relay station would be required. Because telemetry can be very costly, it is included in the project budget.

However, design will also give consideration to an even simpler operation using pressure tanks and flow control valves. A flow control valve could potentially be located at the entry point to the water treatment plan and a pressure tank at the wells. The pressure tanks would likely be set



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**TOWN OF MELSTONE, MONTANA
WATER SYSTEM PER 2008**

Figure 8.1: PROPOSED IMPROVEMENTS

to a predetermined minimum pressure (i.e. 60 psi which would maintain a minimum pressure of 20 psi at the high point in the pipeline to ensure the entire pipeline remains pressurized). If the flow control valve opened at the plant, water would begin to flow by gravity into the clearwell, which would lower pressures along the entire length of the 12-mile pipeline. If the pressure at the pressure tank dropped to a predetermined minimum pressure (i.e. 60 psi), a pressure switch would signal a well to turn on. If the flow control valve at the treatment plant were closed, pressures in the pipeline would increase signaling the well to turn off after reaching a predetermined pressure (i.e. 80 psi). Special design considerations will have to be given to prevent damage to the pipeline and valves from water hammer.

Ultimately, with either a telemetry system or pressure tanks, the wells will be operated based upon system pressures, which are directly related to the water level in the storage tank. With the various tank levels, pressures within the distribution will range from approximately 39 psi at the highest elevations with the tank low to 75 psi at the lowest elevations with the tank full. Operations of the new well and pipeline will essentially be limited to inspecting the wells on a regular basis, adjusting system settings as needed, and maintaining an adequate supply of chlorine. Obviously, other operations outside of the treatment plant will need to be maintained such as maintaining the distribution system, water storage tank, reading meters, etc.

8.3 Impact on Existing Facilities

Impacts that the preferred alternative will have on the existing water system have been discussed in detail in the Alternative Analysis and earlier in this chapter. For a brief summary, the preferred alternative will eliminate reliance on the Musselshell River for source water along with the need for surface water treatment (and compliance with the Surface Water Treatment Rules). There will be no other impacts to the actual distribution system, meters, and/or water storage tank.

During construction, nearly all improvements will be located outside of the existing facilities. Construction of the well, wellhouse, and pipeline can be constructed entirely without interruption to the existing water system. The only interruptions anticipated would be the final tie into the existing system. With careful planning and preparation, the tie-in should be limited to a few hours. The storage tank can easily meet even peak hour demands for a few hours.

No other systems will be impacted as a result of the preferred alternative. No wastewater or waste streams are associated with the proposed alternative. Thus, there will be no excess burdens on the already over-taxed wastewater lagoons.

8.4 Design Criteria

Applicable design criteria were discussed extensively in Chapter 5 and to a lesser extent as part of the Alternative Screening and Analysis in Chapters 6 and 7. In order to minimize repetition, only a very brief summary is provided below.

8.4.1 Water Supply

Using the existing site, the new Fox Hills wells are anticipated to yield approximately 70 to 85 gpm. The projected maximum day demands for Melstone were calculated to be 73 gpm and DEQ-1 requires that a groundwater source supply be capable of meeting peak day demands with the largest well out of service. Table 8.1 provides an estimate of total well capacity after completion of the project.

Table 8.1: Estimated Well Capacity

Well	Yield	Yield w/o Largest Well
	gpm	gpm
#1	15	15
#2	6	6
#6	70	70
#7	70	-
Total	161	91

Clearly, the proposed project will allow the Town to meet the DEQ requirements for minimum source water supply. Water quality of the two new wells will similar to the existing test well and should meet all primary maximum contaminant levels. Though, each well will be tested prior to connection to the system and/or actual use of the water. Furthermore, water rights will be obtained and a source water protection plan will be completed for each well.

8.4.2 Water Treatment

Disinfection will be the only form of treatment implemented as part of the proposed improvements. The Town recently converted to sodium hypochlorite for disinfection and is very pleased with the selection. Thus, sodium hypochlorite will be the method of disinfection and will be pumped into the system at the treatment plant through use of positive displacement pumps. All design criteria presented in Chapter 5, particularly 5.4.5: Sodium hypochlorite, will be adhered to. It should be noted that the Town can easily add disinfection at the wellhouse if needed in the future.

8.4.3 Water Storage

No additional water storage will be constructed as part of this alternative.

8.4.4 Pumping Stations

No additional pump stations, per se, will be constructed as part of this alternative. Submersible pumps will be installed in each of the production wells as discussed as part of the “Water Supply.”

8.4.5 Distribution Layout

The preferred alternative includes approximately 12-miles of new water main as depicted in Figure 8.1. The new main will connect the new wells to the existing system via a 6-inch HDPE pipeline. HDPE is a very durable and flexible product. On the similar 5-mile pipeline, no pipe bedding was required making the HDPE a very economical choice as well.

8.4.6 Hydraulic Calculations

A number of hydrant tests were completed as part of the 2002 PER. Those tests were used to develop and calibrate a hydraulic computer model to represent the Town’s distribution system. Many potential improvements were modeled prior to the selection of the preferred alternative. Modeling and the results are discussed in detail in Section 3.3.7 and associated Table 3.9. Fire flow has been demonstrated to be sufficient for all areas with the exception of the school, which is recommended to be retrofitted with fire suppression sprinklers as these would be far more effective and far less costly.

Hydraulic calculations were also completed for the new 12-mile transmission line connecting the wells to the existing treatment plant. The system will be designed to sustain a minimum pressure of 20 psi throughout the main to ensure the pipeline remains pressurized at all times. Based upon calculations, it was concluded that a 6-inch pipeline would be adequate for carrying the peak day flows of 75 gpm. Assuming HDPE pipe (DR 13.5), the headloss through the pipeline would be approximately 57 feet. Pressures would range throughout the pipeline from a minimum of approximately 20 psi to a maximum of approximately 91 psi with the tank full. Although this exceeds the DEQ recommended maximum of 80 psi, since the pipeline is a transmission main there are no problems anticipated as DR 13.5 has a pressure rating of 128 psi.

The hydraulic calculations for the transmission main are included in Appendix K.

8.4.7 Water Meters

The Town installed new water meters in 2005 as part of the well and pipeline improvements. The Town has been reading the meters on a monthly basis and has presented usage information to customers to allow them to see how much water they are using. The Town has now obtained nearly two years of data and has just implemented a new rate structure based upon actual water usage. The new rates will become effective on June 1, 2008, prior to peak summer demands. Charging based upon the metered use will not only provide a means of equitable billing, but will also cut water demands even further.

Meters will be installed on each of the new wells as part of the proposed project, however, no new residential meters are needed as the entire Town is metered. Though, it should be noted that the Town does require any new connections to the system to be metered.

8.5 Environmental Impacts and Mitigation

A number of agencies were invited to comment on the proposed improvements. After considering responses from the agencies and evaluating the environmental resources to be impacted as presented Section 2.5, the Uniform Environmental Checklist was prepared.

No wetlands and no prime farmland were identified during the early planning process that will be impacted as a result of the proposed project. However, the Natural Resources Conservation

Service did note that the improvements would need to be evaluated for important farmland status under the provisions of the Federal Farmland Protection Policy (FFPP). The wells and wellhouse would need to be evaluating specifically for direct conversion of farmland, if located on land that has not previously been converted. The proposed pipeline is located on previously converted land, though, the pipeline could potentially allow for future conversion. Thus, the pipeline would need to be evaluated for indirect conversions. If the project would result in a total score of less than 160 points, the project would not fall under the FFPP provisions. However, mitigation could be required if the score were above 160 points.

Evaluation of conversion of the farmland would be made after a wellsite is identified and an agreement is known to be viable with a land owner. However, because the actual wellsites and wellhouse will be relatively small and it will not be located in prime farmland, there should not be significant points accumulated for direct conversion. The potential for indirect conversion related to the pipeline could be somewhat sizeable due to the total length of the pipeline. However, the futures impacts resulting in direct conversion are also anticipated to be minimal as a result of the proposed project.

Other important environmental issue to consider is the crossing of the Musselshell River. The Town will need to apply for a Nationwide Permit 12 for utility line activities. Actual impacts to the river will be negligible as directional boring under the river will be required. Regardless, the Town will need to assure proper permitting and compliance is in place with the Army Corps of Engineers, County floodplain coordinator, and Montana Fish, Wildlife, and Parks. All permitting will be completed during the design phase, prior to construction.

No other environmental issues are considered to be problematic. The State Historic Preservation Office was contacted regarding the potential project. In their response letter dated April 14, 2008, SHPO noted that,

As long as this project follows existing right-of way we feel that there is a low likelihood cultural properties will be impacted. We, therefore, feel that a recommendation for a cultural resource inventory is unwarranted at this time.

If there was interest from farmers and ranchers along the length of the pipeline, the Town could add a disinfection system at the wellhouse and allow the additional connections along the route resulting in a socio-economic benefit. Not only would the water be a benefit to the farmers, but the income could also benefit the Town in maintaining the system. The wells and pipeline would be designed for projected growth and demands, thus, the Town would have the extra capacity to accommodate the additional users.

For further review, a copy of the Uniform Environmental Checklist is included in Appendix A, which provides a much more detailed environmental analysis. Also included in the appendix is a copy of the correspondence to and response from the applicable environmental agencies.

8.6 Cost Summary

The following sections discuss the estimated cost of the preferred alternative (all phases). It is important to note that the project has been phased in accordance with health and safety standards (i.e. Phase 1 is most pertinent to health and safety). Allow it would be preferred to construct all phases of the project at the same time, if funds were insufficient, the phasing would allow the Town to break the project up into two phases. Thus, Phase 1 improvements could be completed immediately while Phase 2 improvements could be completed once more funds could be secured.

8.6.1 Project Cost Estimate

Table 8.1 provides a summary of the project cost estimate for all components of the preferred alternative. If sufficient funds can be obtained, the proposed project would include both Phase 1 and Phase 2 improvements. A detailed project budget will be included in Chapter 9 that will include an estimate for both the project administration and construction costs per funding source (i.e. office costs, training, legal services, etc).

8.6.2 Annual Operating Budget

Income

The financial status of the Town was discussed in detail in Section 3.4. The Town currently charges a flat fee of \$57.00 for residential water service. For the last three fiscal years, this

resulted in an income of \$54,078.53, \$53,009.04, and \$47,007.72 for fiscal years 2005, 2006, and 2007, respectively.

It should be noted that as of June 1, 2008, the Town will be changing its water rate structure to bill on actual usage. The rates will be established as \$48.00 for the first 1,000 gallons of usage plus \$3.00 per 1,000 gallons of usage after then first 1,000 gallons. The average residential usage was determined previously to be 6,837 gallons. Therefore, average residential rates are projected to be \$65.51.

O&M Costs

Average O&M expenses for the last three fiscal years was presented in Section 3.4. Annual expenses for the water system totaled \$57,528.21, \$59,041.51, and \$49,941.10 for fiscal years 2005, 2006, and 2007, respectively. See Table 3.10 for a breakdown of the expenses.

Projected O&M expenses need to consider both existing O&M costs along with anticipated changes to O&M costs as a result of the project. The proposed alternative was computed to save the Town approximately \$12,078 in O&M costs as a result of savings in Operator time, chemical costs, and energy costs. Using a current O&M cost of the average of the last three fiscal years or \$54,880, the total projected O&M costs are:

$$\text{Projected O\&M Costs} = \$54,880 - \$12,078 = \$42,802$$

It is worth noting that the Town has been operating with a slight deficit in operating funds. However, the rate increase that is to be implemented in June will be more than adequate to cover the costs of the deficit. In order to sufficiently calculate the required rate increase as a result of this project, Chapter 9 will utilize existing water rates and account the required debt service and net savings of \$12,078 per year as a result of this project. The Town will need to account for the deficit outside of the project cost increases. Though, it is likely that the proposed increase of approximately \$8.51 will meet both needs.

Capital Improvements

No major capital improvement projects are anticipated for the water system outside of the proposed improvements herein.

Debt Repayments and Coverage Requirements

The funding strategy for the Town will be discussed in detail in the next chapter, which will provide a summary of each proposed source of funding. Where loan funds are used, increases in annual costs for both debt repayment and coverage requirements will be considered in addition to project costs.

Existing debt repayments and coverage requirements were presented in Section 3.4.

8.6.3 Reserves

Reserve requirements for loan funds are considered as part of the funding strategies presented in the next chapter. In addition, short-lived assets were included as part of the O&M costs. Therefore, there are no additional reserve requirements to be included as part of the project costs.

9.0 RECOMMENDATIONS AND IMPLEMENTATION

Up until this point, the recommended improvements have been based upon technical needs and have not considered the financial capabilities of the Town. The Town has limited funds available for such a project and will need the resources of outside funding sources in order to make the project feasible. The following sections will provide a basis for determining a funding strategy that is reasonable and affordable to the Town.

9.1 Potential Funding Sources

Prior to examining the funding sources available to Melstone, it is important to understand the concept of “Target Rate,” as established by the Montana Department of Commerce (MDOC). The target rate is a user rate that is established by the MDOC for each municipality across the state. The target rate is used to determine whether or not a municipality is paying its fair share of a project’s cost. In order to apply for grant funding from the MDOC, the user rates after completion of the project must meet or exceed the established target rates.

The target rates are calculated as a percentage of the median household income (MHI) for the individual municipality, as listed in the most current census. The MDOC has determined, based on surveying communities that have undergone recent upgrades to their water and/or wastewater systems, that the “fair share” of cost per user after completing a project should be approximately 1.4% of the median household income for water only, 0.9% for wastewater only, or 2.3% for water and wastewater combined.

The target rate for Melstone was presented in Section 3.4 and was determined to be \$59.90 for water and wastewater combined. The existing combined rate is \$69.75, which is nearly 117% of the target rate prior to consideration of this project. Thus, the Town does qualify for grants through the MDOC.

The following provides a brief description of the most common potential funding sources available to municipalities in Montana and whether or not Melstone would be eligible for those funds.

Community Development Block Grant (CDBG)

CDBG is a federally funded program that is administered by the Montana Department of Commerce (MDOC). The CDBG grant funds can be applied for in an amount of up to \$450,000 with a limit of \$15,000 per LMI household (need 30 LMI households to obtain maximum grant funds). The use of CDBG funds requires a 25% local match that can be provided through cash funds, loans, or a combination thereof.

The primary purpose of CDBG funds is to benefit low to moderate income (LMI) families. Hence, a municipality must have an LMI of 51% or greater. Low income is defined by the program as a family earning less than 50% of the median income for the county, and moderate income is defined as 50% to 80% of the median income. Melstone is listed as having an LMI of 39.6%, which makes them ineligible for CDBG funds based on Census data.

However, the Census typically does not provide the most accurate LMI statistics as oftentimes surveys are not completed. Thus, CDBG allows an income survey to be completed. And, if a certain percentage of surveys are completed as determined based upon the number of households within the system, then the survey can be used to determine LMI. This usually results in an LMI of up to several percentage points higher than the Census survey.

Melstone completed an income survey in 2002 and had a very high response rate of 87%. The survey found that 68.2% of the residents are considered LMI. The survey methodology was approved by CDBG enabling Melstone to become eligible for CDBG funds. Consequently, the Town applied for and was awarded \$500,000 of CDBG funds in 2003 for the proposed well and pipeline improvements. Unfortunately, due to the lack water available, the project has not been able to continue and needed to be re-evaluated (hence, the development of this PER).

To date, the Town has \$377,876 of CDBG funds remaining. CDBG has given verbal permission to use these remaining funds for the proposed project, herein. Thus, the Town will consider the remaining funds to be available for this project.

Treasure State Endowment Program (TSEP)

TSEP is a state funded grant program, which is also administered by the Montana Department of Commerce (MDOC). TSEP provides financial assistance to local governments for infrastructure

improvements. TSEP provides grant funds of up to \$750,000 for any particular project, with a maximum of 50% of the total project costs. The eligible amount of TSEP funds is based upon a sliding scale such that communities are eligible for up to:

- \$750,000 if rate exceeds 150% of the target rate
- \$625,000 if rate is between 125% and 150% of the target rate
- \$500,000 if rate is below 125% of the target rate

In addition to the above limitations, TSEP funds are also limited to a maximum of 50% of the total project costs. The other 50% or less may come from a variety of sources including other grants, loans, or cash contributions. To be eligible for grant funds from TSEP, user rates must meet or exceed the target rate. Thus, the Town is currently eligible for up to \$500,000 of TSEP funds. It is likely that rates will be increased to over 125% of the target rate. In this case, the Town could apply for up to \$625,000 of TSEP funds.

Renewable Resource Grant and Loan Program (RRGL or DNRC RRGL)

RRGL is a state program that is funded through interest that accrues on the Resource Indemnity Trust Fund and the sale of Coal Severance Tax Bonds and is administered by the Montana Department of Natural Resources and Conservation. The primary purpose of the RRGL is to enhance Montana's renewable resources. For public facilities projects that conserve, manage, develop, or protect renewable resources, grants of up to \$100,000 are available. Although the RRGL program is extremely competitive, the proposed project will be enhancing Montana's renewable resources. Thus, the Town has a chance of obtaining up to \$100,000 of grant funds through the DNRC-RRGL program.

Montana Coal Board

The Coal Board provides grant funding to municipalities to adequately provide for the expansion of public services or facilities needed as a direct consequence of coal development activities. There is no maximum limit to the amount the Coal Board can fund, per se, but funding is very limited and can be difficult to obtain from the Coal Board, especially for large sums.

The Town of Melstone is located within the eligible Coal Board boundaries and did receive fund from the Coal Board for the early work that was completed. Because the funds are so difficult to

obtain and limited, it is not likely that the Town will receive additional funds from the Coal Board.

Economic Development Administration (EDA)

EDA provides grant funding for projects that are demonstrated to be needed for the placement of a new business. The amount of grant is dependent on the number of jobs created. This project will not have any direct impact on new businesses or number of jobs created that are known. Hence, Melstone would not be eligible to receive grant funding from EDA for this project.

Rural Development (RD)

RD provides grant and loan funding to municipalities for water and wastewater projects that improve the quality of life and promote economic development in Rural America. Grant eligibility and loan interest rates are based on the community's median household income and user rates (compared to user rates of similar systems). Melstone is eligible for up to 75% grant through Rural Development, though, there is no set formula as to how much grant might actually be received.

The Town has an existing grant/loan package from Rural Development with approximately \$403,864 remaining. Similar to CDBG, RD has indicated that all of these funds can be used for the proposed project. To account for anticipated expenses from the PER and test well that have not yet been paid, it is going to be assumed that only \$370,000 will be available for the new project.

Because the Town is grant eligible, Rural Development is an excellent source of grant/loan funds (any grant award is accompanied by loan funds). The term is less than desirable as it is 40 years (versus 20 years with SRF), however, the longer term also helps make the loan more affordable. It should be noted that the Town will not be able to "add" onto the existing grant/loan funds, but they will be eligible to apply for a new grant/loan package.

INTERCAP

INTERCAP provides loan funds at a low cost, variable interest rate to local governments. INTERCAP is administered by the Montana Board of Investments and is very flexible in the variety of funding which would include both water and wastewater projects. There is no funding

cycle (funds are always available), however, the maximum loan term is 10 years. Due to the relatively large amount of financing required, an INTERCAP loan with the shorter loan term would cause extremely high user rates for the residents and is not recommended for long-term financing. Should Melstone be in need of interim financing at any point during the project, INTERCAP would be an excellent source.

State Revolving Fund (SRF)

SRF provides low-interest loan funds for water and wastewater projects through the Drinking Water State Revolving Fund (DWSRF) and the Water Pollution Control State Revolving Fund (WPCSRF), respectively. The SRF program is administered by the Montana Department of Environmental Quality. Current loan terms include an interest rate of 3.75% for a period of up to 20 years. Although these are the most attractive loan funds regarding loan terms, SRF does not have a grant program. Since it is likely that the Town will receive a new RD grant/loan package, SRF would not be used. However, if no grant funds were available from RD, the Town could consider using SRF.

To acquire SRF funds, Hardin would first need to complete a Priority List Survey for the proposed project, which would then be used to rank the project on the program's priority list. An application for funds could be submitted at any time once the project was included on the priority list.

State & Tribal Assistance Grant (STAG) Program and Water Resource Development Act (WRDA) Grant Program (595 Program)

STAG and WRDA grants are federal fiscal appropriations that are approved by the U.S. House of Representatives and the U.S. Senate. STAG and WRDA grants are available for infrastructure improvements for municipalities, among other governmental agencies. The program generally requires a 45% match for the STAG funds and 25% match for WRDA funds. State grant and loan funds are eligible to meet the matching requirements as well as federal funds from the Rural Development Program and the Community Development Block Grant Program. STAG and WRDA grant applications are accepted by Montana's Congressional delegation in January/February of each year. Results of the appropriation requests are not known until the following summer or fall. These funds are very difficult to obtain and will not be considered as part of the funding strategy.

9.2 Funding Strategy

Numerous options have been identified as potential funding source for the Town. However, since the Town has already secured funds from CDBG, RD, and the Coal Board, remaining funds are limited. Due to the nature of the project and anticipated user rates, the Town would have a good chance of obtaining additional grant funds through TSEP and DNRC. The Town would be much less likely of obtaining funds from sources such as WRDA or STAG. Thus, the preferred funding package recommended for the Town would include:

- Existing CDBG Funds
- Existing RD Grant/Loan Funds
- New TSEP Funds
- New DNRC Funds
- New RD Grant/Loan Funds

Consideration of various combinations of the above funding strategy is depicted in Table 9.1 along with the resulting user rates. Using the preferred “Scenario 1” as a basis, a detailed project budget is presented in Table 9.2, which provides a breakdown of each of the line items costs by funding source.

It is also important to point out that the proposed project is consistent with the Central Montana Rural Water System. Thus, all funds that are invested in the proposed 12-mile pipeline will be a direct savings to the rural water system.

9.3 Implementation

Before the project can be implemented, the funding must first be in place. As noted earlier, the proposed funding package for the Town is to utilize TSEP and DNRC grant funds in addition to existing funds as well as a new RD grant/loan package. The grant applications for TSEP and DNRC are due in May of 2008. The results of those applications would not likely be known until October of 2008. Actual grant funds, if awarded, would not be secured until May of 2009.

RD funds are available on an open cycle and do not have a strict deadline. For this reason, an RD application would not be submitted until after a land agreement was completed. This would

Table 9.1: Funding Strategy

Cost and Term	1	2	3	5	6
	TSEP, CDBG, DNRC, and RD +RD Grant/Loan	TSEP, CDBG, DNRC, and RD +RD Loan Only	TSEP, CDBG, and RD + RD Grant/Loan	CDBG, DNRC, and RD +RD Grant/Loan	CDBG and RD +RD Grant/Loan
Total Capital Costs	\$2,250,215	\$2,250,215	\$2,250,215	\$2,250,215	\$2,250,215
Personnel Costs	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700
Office Costs	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Legal Costs	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Audit Fees	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Travel & Training	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Loan Reserves (Ex. Loan)	\$19,800	\$19,800	\$19,800	\$19,800	\$19,800
Bond Council	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Total Project Costs	\$2,286,215	\$2,286,215	\$2,286,215	\$2,286,215	\$2,286,215
Existing CDBG Grant Funding	\$377,876	\$377,876	\$377,876	\$377,876	\$377,876
Existing RD Grant Funding	\$373,864	\$373,864	\$373,864	\$373,864	\$373,864
Total New Funding Required	\$1,534,476	\$1,534,476	\$1,534,476	\$1,534,476	\$1,534,476
TSEP Grant Funding	\$625,000	\$750,000	\$625,000	\$0	\$0
DNRC Grant Funding	\$100,000	\$100,000	\$0	\$100,000	\$0
New RD Grant Funding	\$545,000	\$200,000	\$650,000	\$650,000	\$650,000
New RD Base Loan Amount	\$264,476	\$484,476	\$259,476	\$784,476	\$884,476
Required Loan Reserve at 8%	\$21,158	\$38,758	\$20,758	\$62,758	\$70,758
Loan Fees at 0%	\$0	\$0	\$0	\$0	\$0
Total RD Loan Amount	\$285,634	\$523,234	\$280,234	\$847,234	\$955,234
Loan Payment ¹ per year	\$15,522	\$28,434	\$15,229	\$46,041	\$51,910
Required Loan Coverage ² per year	\$1,552	\$2,843	\$1,523	\$4,604	\$5,191
Total Increase for Debt Service per year	\$17,074	\$31,278	\$16,752	\$50,645	\$57,101
Change in O&M Costs per year	(\$12,078)	(\$12,078)	(\$12,078)	(\$12,078)	(\$12,078)
Total Net Increase in Income Needed per year	\$4,996	\$19,200	\$4,674	\$38,567	\$45,023
Existing EDU's	72	72	72	72	72
Cost Increase per EDU (water) per year	\$69.40	\$266.66	\$64.91	\$535.66	\$625.33
Cost Increase per EDU (water) per mo.	\$5.78	\$22.22	\$5.41	\$44.64	\$52.11

Table 9.2: Detailed Project Budget

Source	Existing CDBG Funds ¹	Existing RD Grant/Loan Funds ¹	TSEP	DNRC	Additional RD Grant/Loan	Total All Sources
Administrative and Financial Services						
Personnel Costs	\$1,649.60		\$1,050.40			\$2,700.00
Office Costs	\$700.00	\$800.00	\$1,000.00			\$2,500.00
Professional Services	\$898.77	\$1,203.50	\$22,036.73		\$14,000.00	\$38,139.00
Legal Costs	\$1,000.00		\$1,000.00			\$2,000.00
Audit Fees	\$1,000.00	\$1,000.00	\$1,000.00		\$1,000.00	\$4,000.00
Travel & Training			\$1,000.00			\$1,000.00
Loan Fees						\$0.00
Loan Reserves		\$19,800.00			\$21,158.00	\$40,958.00
Interim Interest						\$0.00
Bond Counsel and Related Costs					\$4,000.00	\$4,000.00
Total Administrative/Financial Costs	\$5,248.37	\$22,803.50	\$27,087.13	\$0.00	\$40,158.00	\$95,297.00
Activity Costs						
Preliminary Engineering (PER)						\$0.00
Land Acquisition			\$20,000.00			\$20,000.00
Engineering Design	\$1,171.36	\$9,882.99			\$141,502.65	\$152,557.00
Construction Engineering Services	\$11,988.63	\$45,269.80	\$95,298.57			\$152,557.00
Construction	\$338,137.25	\$272,207.46	\$438,740.00	\$90,000.00	\$574,516.29	\$1,713,601.00
Contingency	\$21,330.00	\$23,700.00	\$43,874.30	\$10,000.00	\$74,455.70	\$173,360.00
Total Activity Costs	\$372,627.24	\$351,060.25	\$597,912.87	\$100,000.00	\$790,474.64	\$2,212,075.00
Total Project Costs	\$377,875.61	\$373,863.75	\$625,000.00	\$100,000.00	\$830,632.64	\$2,307,372.00

¹ CDBG and RD funds are already available to the Town and represent the total amount of funds remaining as of 2/8/2008

allow the Town to increase and/or decrease total requested RD funding as needed if Wellsite #3 were to be used or if the Town had to fall back to Alternative #1 (microfiltration).

Upon securing all funding, the project start-up for the grant programs is expected to be about a two month process. However, the engineering could begin immediately using existing funding sources. It is anticipated that final design would be completed by December of 2009. This would allow bidding to take place in February of 2010 with construction anticipated to start in early spring, dependent upon weather conditions.

Table 9.3 provides a summary of the implementation schedule.

9.4 Public Participation

Public participation for the project started many years ago during the preparation of the 2002 PER. The Town not only conducted several public hearings, but they also completed a Needs Assessment survey. The Needs Assessment resulted in a return rate of 87%. The water system was overwhelmingly noted to be the #1 and #2 priorities for Town residents, with quantity being #1 followed by quality. The support for the water system improvements continued through three public meetings that were held in 2002. In fact, one public hearing had over 70 people in attendance (this is more than half of the Town's current population).

After all of the problems to date and potential changes in the proposed project, the Town opted to completed a new PER to re-evaluate the project. As a result, the PER herein readdressed the problems with the existing water system. The new PER provided new recommended improvements based upon all of the information available including the 1988 study, the 2002 PER, and the new information gathered.

In order to inform the public of the changes, the Town Council held a public hearing on April 7, 2008. Although there were not a large number of citizens present at the meeting, the word was spread throughout Town, and the Council is finding a large number citizens have indicated verbal support to them for the project.

Copies of the presentations, sign-in sheets, and minutes from the meetings are included in Appendix L.

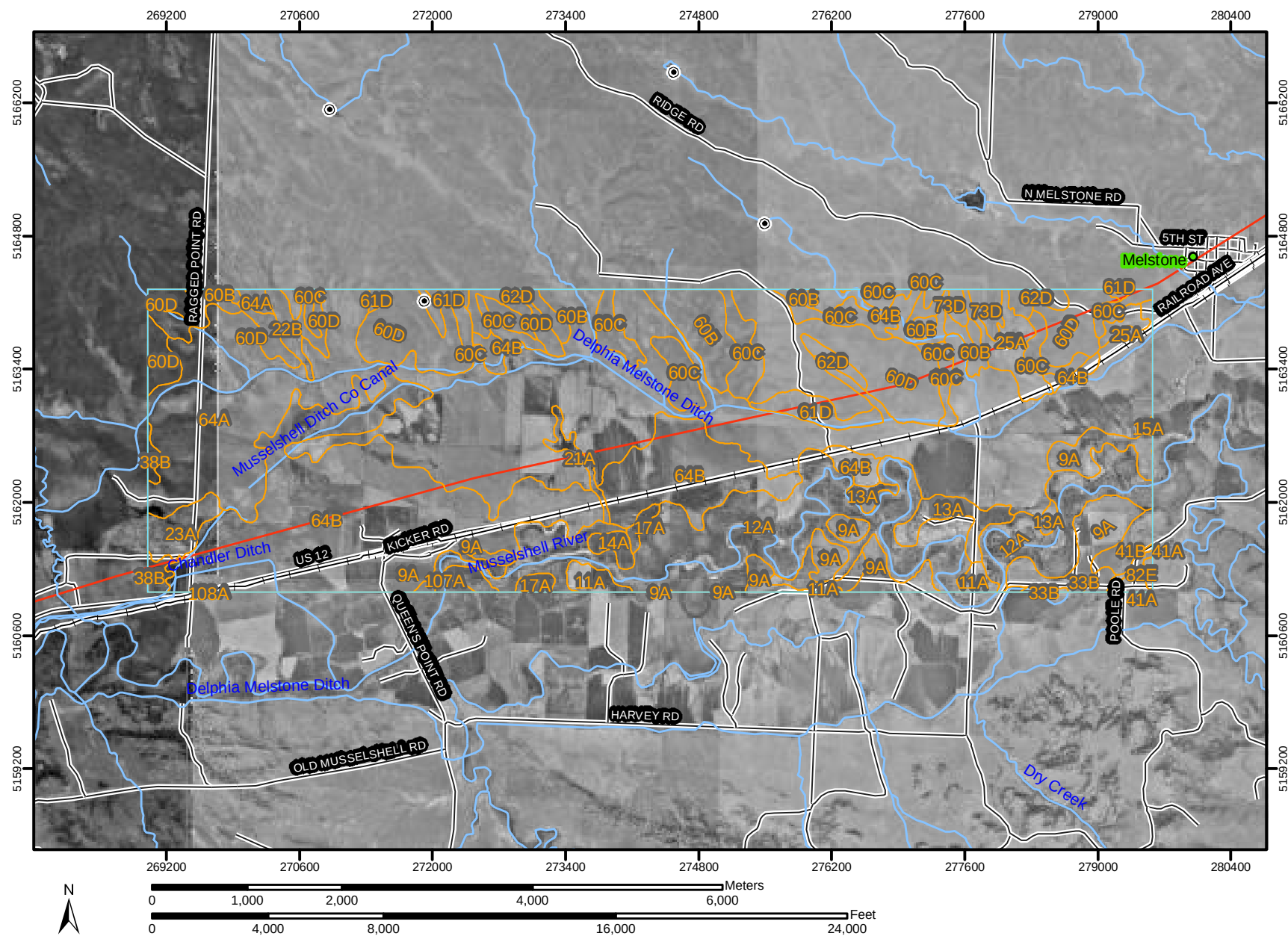
Table 9.3: Implementation Schedule

ACTION	DATE	FUNDING	NOTES
Hire Engineer/Administrator	DONE		
Submit TSEP, DNRC Grant Applications	'May 2008	RD	
Results of Grant Applications Known	Oct 2008		
Land Acquisition Complete	Nov 2008		
Apply to RD for Grant/Loan	Dec 2008		If insufficient funding, reapply or phase project
Begin Design Phase	Mar 2009	RD, CDBG	
TSEP, DNRC Grant Funds Available	June 2009		
Start-Up	July 2009	RD, CDBG	
Submit Plans to DEQ	Dec 2009		
DEQ Approval	Feb 2010		Allows 2 full months for review
Advertise and Bid Project	Feb - Mar 2010	RD, CDBG	
Construction	Mar - Aug 2010	RD, CDBG, TSEP, DNRC	Allows Contractor to begin in early spring
Final Walk-Through	Sept 2010		
Close-out	Nov 2010		Closeout would be conditional for TSEP, CDBG; Final for DNRC
Schedule Audit	Feb 2011	RD, CDBG, TSEP	Evaluate need special single audit act due to high amount of state funds
Final TSEP Close-out	Mar 2011		For TSEP and CDBG
11 Month Walk-Through	Aug 2011		

9.5 Resolution of Acceptance

The Town of Melstone has officially adopted this Preliminary Engineering Report and accepted the recommended funding scenario to complete the proposed water system improvements herein. The resolution was adopted on April 10, 2008, just after the public hearing. A copy of the resolution is included in Appendix O.

Soil Map—Musselshell County, Montana



Natural Resources
Conservation Service

Web Soil Survey 2.0
National Cooperative Soil Survey

7/25/2007
Page 1 of 4

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot



Very Stony Spot



Wet Spot



Other

Special Line Features



Gully



Short Steep Slope



Other

Political Features

Municipalities



Cities



Urban Areas

Water Features



Oceans



Streams and Canals

Transportation



Rails

Roads



Interstate Highways



US Routes



State Highways



Local Roads



Other Roads

MAP INFORMATION

Original soil survey map sheets were prepared at publication scale. Viewing scale and printing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 13N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Musselshell County, Montana
Survey Area Data: Version 5, Apr 19, 2007

Date(s) aerial images were photographed: 7/29/1996; 8/24/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9A	Havre loam, 0 to 2 percent slopes, rarely flooded	367.8	4.4%
11A	Havre-Glendive complex, 0 to 2 percent slopes, rarely flooded	98.8	1.2%
12A	Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled	1,097.8	13.2%
13A	Havre loam, calcareous, 0 to 2 percent slopes, rarely flooded	110.8	1.3%
14A	Havre, calcareous-Glendive complex, 0 to 2 percent slopes, rarely flooded	28.5	0.3%
15A	Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded	3.9	0.0%
17A	Harlake-Havre complex, calcareous, 0 to 2 percent slopes	34.0	0.4%
21A	McKenzie silty clay, 0 to 2 percent slopes	29.7	0.4%
22B	Nobe-Absher complex, 0 to 4 percent slopes	37.0	0.4%
23A	Gerdrum-Vanda complex, 0 to 8 percent slopes	75.9	0.9%
25A	Vanda silty clay, 0 to 4 percent slopes	115.7	1.4%
33B	Yamacall loam, 2 to 8 percent slopes	18.8	0.2%
38B	Zatoville silty clay loam, 1 to 8 percent slopes	33.6	0.4%
41A	Yamacall loam, calcareous, 0 to 2 percent slopes	18.8	0.2%
41B	Yamacall loam, calcareous, 2 to 8 percent slopes	49.9	0.6%
60B	Abor silty clay, 1 to 8 percent slopes	242.4	2.9%
60C	Abor-Neldore silty clays, 2 to 8 percent slopes	443.6	5.3%
60D	Neldore-Abor silty clays, 4 to 15 percent slopes	831.2	10.0%
61D	Neldore-Neldore, saline silty clays, 4 to 25 percent slopes	121.6	1.5%
62D	Neldore-Yawdim silty clays, 4 to 25 percent slopes	71.4	0.9%
64A	Marvan-Vanda silty clays, 0 to 4 percent slopes	2,736.2	32.9%

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
64B	Marvan silty clay, 0 to 8 percent slopes	1,631.7	19.6%
73D	Yawdim-Abor complex, 4 to 15 percent slopes	53.9	0.6%
82E	Cabbart-Delpoint-Rock outcrop complex, 8 to 45 percent slopes	16.8	0.2%
107A	Lostriver-Bullhook complex, 0 to 2 percent slopes, rarely flooded	22.6	0.3%
108A	Harlake-Havre complex, 0 to 2 percent slopes, rarely flooded	13.0	0.2%
Totals for Area of Interest (AOI)		8,305.3	100.0%

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

-  Very Stony Spot
-  Wet Spot
-  Other

Special Line Features

-  Gully
-  Short Steep Slope
-  Other

Political Features

Municipalities

-  Cities
-  Urban Areas

Water Features

-  Oceans
-  Streams and Canals

Transportation

-  Rails

Roads

-  Interstate Highways
-  US Routes
-  State Highways
-  Local Roads
-  Other Roads

MAP INFORMATION

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 13N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Musselshell County, Montana
Survey Area Data: Version 5, Apr 19, 2007

Soil Survey Area: Rosebud County Area and Part of Big Horn County, Montana
Survey Area Data: Version 5, Apr 11, 2007

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Date(s) aerial images were photographed: 7/29/1996

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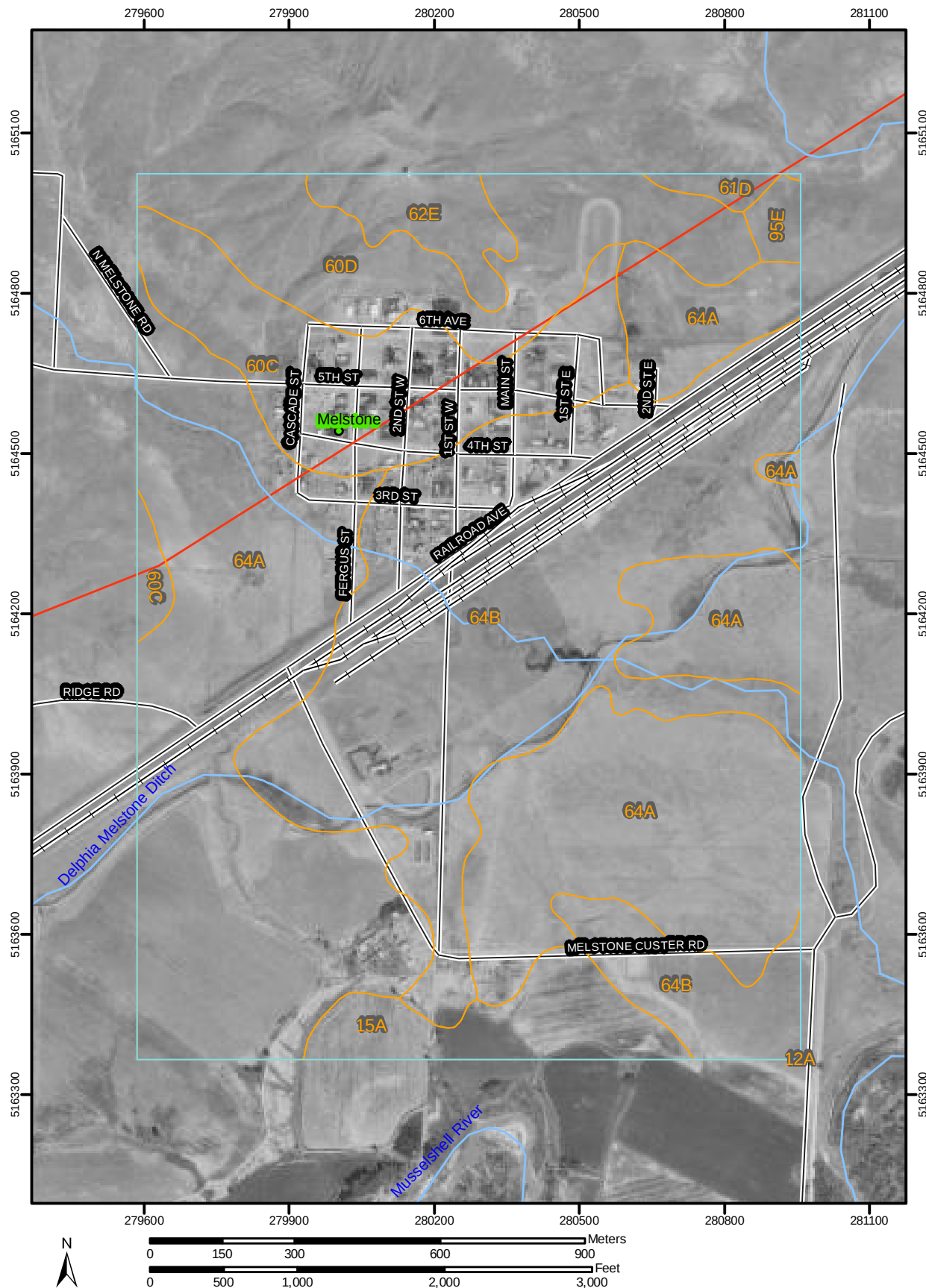
Map Unit Legend

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9A	Havre loam, 0 to 2 percent slopes, rarely flooded	193.3	2.5%
9B	Havre, occasionally flooded-Yamacall loams, 0 to 4 percent slopes	127.4	1.6%
12A	Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled	583.6	7.4%
13A	Havre loam, calcareous, 0 to 2 percent slopes, rarely flooded	266.3	3.4%
15A	Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded	116.4	1.5%
25A	Vanda silty clay, 0 to 4 percent slopes	22.5	0.3%
30C	Busby fine sandy loam, 2 to 8 percent slopes	109.3	1.4%
30D	Busby fine sandy loam, 8 to 15 percent slopes	321.8	4.1%
31C	Delpoint-Cabbart-Yamacall loams, 4 to 15 percent slopes	208.6	2.6%
32B	Twilight sandy loam, 2 to 8 percent slopes	39.1	0.5%
32D	Twilight-Blacksheep-Rock outcrop complex, 4 to 25 percent slopes	26.7	0.3%
33A	Yamacall loam, 0 to 2 percent slopes	71.2	0.9%
33B	Yamacall loam, 2 to 8 percent slopes	116.5	1.5%
35B	Yamacall-Busby complex, 2 to 8 percent slopes	24.6	0.3%
36B	Yamacall-Delpoint loams, 2 to 8 percent slopes	51.1	0.6%
39C	Delpoint, calcareous-Cabbart-Yamacall, calcareous, loams, 4 to 15 percent slopes	373.5	4.7%
40B	Kobase silty clay loam, 1 to 8 percent slopes	55.8	0.7%
40C	Kobase silty clay loam, calcareous, 1 to 8 percent slopes	56.0	0.7%
41A	Yamacall loam, calcareous, 0 to 2 percent slopes	436.4	5.5%
41B	Yamacall loam, calcareous, 2 to 8 percent slopes	206.8	2.6%

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
41C	Yamacall-Delpoint loams, calcareous, 2 to 8 percent slopes	64.7	0.8%
60C	Abor-Neldore silty clays, 2 to 8 percent slopes	187.2	2.4%
60D	Neldore-Abor silty clays, 4 to 15 percent slopes	355.9	4.5%
61D	Neldore-Neldore, saline silty clays, 4 to 25 percent slopes	95.3	1.2%
62D	Neldore-Yawdim silty clays, 4 to 25 percent slopes	10.9	0.1%
62E	Neldore-Rock outcrop complex, 15 to 45 percent slopes	36.3	0.5%
64A	Marvan-Vanda silty clays, 0 to 4 percent slopes	1,038.3	13.2%
64B	Marvan silty clay, 0 to 8 percent slopes	506.8	6.4%
82C	Cabbart-Delpoint-Rock outcrop complex, 4 to 15 percent slopes	92.2	1.2%
82E	Cabbart-Delpoint-Rock outcrop complex, 8 to 45 percent slopes	516.3	6.6%
83D	Cabbart-Rock outcrop- Blacksheep complex, 8 to 45 percent slopes	287.5	3.6%
84D	Cabbart-Yawdim-Badland complex, 4 to 35 percent slopes	38.7	0.5%
87B	Delpoint, calcareous-Cabbart loams, 2 to 8 percent slopes	73.7	0.9%
95E	Yawdim-Crago complex, 4 to 35 percent slopes	52.0	0.7%
108A	Harlake-Havre complex, 0 to 2 percent slopes, rarely flooded	10.9	0.1%
111A	Havre-Glendive complex, 0 to 2 percent slopes, occasionally flooded	40.6	0.5%
132B	Twilight-Blacksheep sandy loams, 2 to 8 percent slopes	75.2	1.0%
182D	Cabbart-Delpoint loams, 4 to 15 percent slopes	320.2	4.1%
241E	Twilight-Blacksheep-Rock outcrop complex, 4 to 35 percent slopes	2.1	0.0%
280D	Cabbart, moist-Delpoint, dry loams, 4 to 15 percent slopes	188.1	2.4%
286F	Cabbart-Rock outcrop complex, 8 to 45 percent slopes	15.5	0.2%

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
287F	Cabbart, moist-Delpoint, dry loams, 8 to 45 percent slopes	92.9	1.2%
288D	Delpoint-Cabbart-Havre loams, 4 to 25 percent slopes	105.2	1.3%
288F	Cabbart-Delpoint loams, 15 to 65 percent slopes	206.4	2.6%
Rosebud County Area and Part of Big Horn County, Montana (MT649)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
104	Havre, Harlake, and Glendive soils, channeled, 0 to 2 percent slopes	56.3	0.7%
109	Kobar silty clay loam, 0 to 2 percent slopes	0.0	0.0%
110	Kobar silty clay loam, 2 to 8 percent slopes	0.8	0.0%
Totals for Area of Interest (AOI)		7,876.9	100.0%

Soil Map–Musselshell County, Montana (Town of Melstone)



Natural Resources
Conservation Service

Web Soil Survey 2.0
National Cooperative Soil Survey

7/26/2007
Page 1 of 3

Soil Map–Musselshell County, Montana
(Town of Melstone)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Special Point Features

 Blowout
 Borrow Pit
 Clay Spot
 Closed Depression
 Gravel Pit
 Gravelly Spot
 Landfill
 Lava Flow
 Marsh
 Mine or Quarry
 Miscellaneous Water
 Perennial Water
 Rock Outcrop
 Saline Spot
 Sandy Spot
 Severely Eroded Spot
 Sinkhole
 Slide or Slip
 Sodic Spot
 Spoil Area
 Stony Spot



Very Stony Spot



Wet Spot



Other

Special Line Features



Gully



Short Steep Slope



Other

Political Features

Municipalities



Cities



Urban Areas

Water Features



Oceans



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Rails

Roads



Interstate Highways



US Routes



State Highways



Local Roads



Other Roads

MAP INFORMATION

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Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 13N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Musselshell County, Montana
 Survey Area Data: Version 5, Apr 19, 2007

Date(s) aerial images were photographed: 7/29/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Musselshell County, Montana (MT065)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
12A	Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled	0.0	0.0%
15A	Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded	25.1	4.0%
60C	Abor-Neldore silty clays, 2 to 8 percent slopes	63.1	10.1%
60D	Neldore-Abor silty clays, 4 to 15 percent slopes	59.5	9.6%
61D	Neldore-Neldore, saline silty clays, 4 to 25 percent slopes	3.1	0.5%
62E	Neldore-Rock outcrop complex, 15 to 45 percent slopes	14.7	2.4%
64A	Marvan-Vanda silty clays, 0 to 4 percent slopes	263.6	42.4%
64B	Marvan silty clay, 0 to 8 percent slopes	189.2	30.4%
95E	Yawdim-Crago complex, 4 to 35 percent slopes	4.0	0.6%
Totals for Area of Interest (AOI)		622.3	100.0%

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties



Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
12A—Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled												
Havre	0-4	Loam	CL-ML, ML	A-4	0	0	100	100	80-95	60-75	20-30	NP-10
	4-60	Stratified fine sandy loam to clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	80-95	60-80	20-35	5-15
Harlake	0-5	Silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-65	20-40
	5-60	Stratified silt loam to clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-70	15-45
Glendive	0-8	Fine sandy loam	ML, SC-SM, SM, CL-ML	A-2, A-4	0	0	100	100	65-85	30-55	20-30	NP-10
	8-14	Loam, silt loam, sandy loam	CL-ML, ML, SC-SM, SM	A-4	0	0	100	100	65-95	40-70	15-30	NP-10
	14-60	Stratified loamy fine sand to silt loam	SC-SM, SM	A-2, A-4	0	0	95-100	75-100	60-80	25-50	15-25	NP-10
Bigsandy	0-3	Loam	CL-ML, CL	A-4	0	0	100	100	85-95	60-85	25-30	5-10
	3-14	Stratified fine sandy loam to silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	80-100	50-90	25-40	5-15
	14-60	Stratified fine sandy loam to silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	80-100	50-90	25-40	5-15
Thibadeau	0-2	Clay loam	CL	A-6, A-7	0	0	100	100	90-100	70-80	30-45	10-20
	2-14	Stratified clay loam to loam to fine sandy loam	CL-ML, CL	A-4, A-6	0	0	100	100	75-100	50-80	25-35	5-15

Engineering Properties-- Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
	14-60	Stratified clay loam to loam to fine sandy loam	CL, CL-ML	A-4, A-6	0	0	100	100	75-100	50-80	25-35	5-15

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
15A—Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded												
Havre, calcareous	0-4	Loam	CL-ML, CL	A-4	0	0	100	100	80-95	60-90	20-30	5-10
	4-60	Stratified fine sandy loam to clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	80-95	60-80	20-35	5-15
Harlake	0-5	Silty clay	CL	A-6, A-7	0	0	100	100	95-100	90-95	30-50	15-30
	5-60	Stratified silt loam to clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-70	15-45
Glendive	0-8	Fine sandy loam	ML, SM	A-2, A-4	0	0	100	100	65-85	30-55	15-20	NP-5
	8-14	Loam, silt loam, sandy loam	CL-ML, ML, SC-SM, SM	A-4	0	0	100	100	65-95	40-70	15-25	NP-10
	14-60	Stratified loamy fine sand to silt loam	SC-SM, SM	A-2, A-4	0	0	95-100	75-100	60-80	25-50	15-25	NP-10
Bigsandy	0-3	Loam	CL-ML, CL	A-4	0	0	100	100	85-95	60-85	25-30	5-10
	3-14	Stratified fine sandy loam to silty clay loam	CL-ML, CL	A-6, A-4	0	0	100	100	80-100	50-90	25-40	5-15
	14-60	Stratified fine sandy loam to silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	80-100	50-90	25-40	5-15
Havre	0-4	Loam	CL-ML	A-4	0	0	100	100	80-95	60-90	20-30	5-10

Engineering Properties-- Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
	4-60	Stratified fine sandy loam to clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	80-95	60-80	20-35	5-15
Bullhook	0-5	Loam	CL-ML, CL	A-4	0	0	100	100	85-95	60-75	25-30	5-10
	5-11	Clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	70-100	50-80	20-35	5-15
	11-60	Stratified fine sandy loam to clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	70-100	50-80	20-35	5-15

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
60C—Abor-Neldore silty clays, 2 to 8 percent slopes												
Abor	0-3	Silty clay	CH	A-7	0	0	100	100	92-100	89-100	51-68	29-40
	3-15	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	15-32	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	32-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Neldore	0-3	Silty clay	CH	A-7	0	0	100	100	94-100	90-100	51-66	29-36
	3-6	Clay, silty clay	CH	A-7	0	0	93-100	79-100	71-100	68-100	50-70	29-44
	6-14	Clay, silty clay	CH	A-7	0	0-4	85-100	67-100	60-100	58-100	49-69	29-44
	14-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Neldore, saline	0-4	Silty clay	CH	A-7	0	0	100	100	93-100	91-100	56-72	32-44
	4-18	Silty clay, clay	CH	A-7	0	0	100	100	93-100	91-100	55-70	32-44
	18-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Yawdim	0-2	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-90	30-45	10-20
	2-16	Silty clay loam, clay loam, silty clay	CH, CL	A-7	0	0	100	100	90-100	70-95	40-60	15-35
	16-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Marvan	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-65	20-45
	2-9	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	9-17	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	17-30	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50

Engineering Properties-- Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
	30-60	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
Vanda	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	75-95	40-65	20-45
	2-12	Clay, silty clay, silty clay loam	CH, CL	A-7, A-6	0	0	100	100	95-100	80-95	35-65	15-45
	12-60	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	95-100	80-95	35-65	15-45
60D—Neldore-Abor silty clays, 4 to 15 percent slopes												
Neldore	0-3	Silty clay	CH	A-7	0	0	100	100	94-100	90-100	51-66	29-36
	3-6	Clay, silty clay	CH	A-7	0	0	93-100	79-100	71-100	68-100	50-70	29-44
	6-14	Clay, silty clay	CH	A-7	0	0-4	85-100	67-100	60-100	58-100	49-69	29-44
	14-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Abor	0-3	Silty clay	CH	A-7	0	0	100	100	92-100	89-100	51-68	29-40
	3-15	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	15-32	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	32-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Neldore, saline	0-4	Silty clay	CH	A-7	0	0	100	100	93-100	91-100	56-72	32-44
	4-18	Silty clay, clay	CH	A-7	0	0	100	100	93-100	91-100	55-70	32-44
	18-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Yawdim	0-2	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-90	30-45	10-20
	2-16	Silty clay loam, clay loam, silty clay	CH, CL	A-7	0	0	100	100	90-100	70-95	40-60	15-35
	16-60	Bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
61D—Neldore-Neldore, saline silty clays, 4 to 25 percent slopes												
Neldore	0-3	Silty clay	CH	A-7	0	0	100	100	94-100	90-100	51-66	29-36
	3-6	Clay, silty clay	CH	A-7	0	0	93-100	79-100	71-100	68-100	50-70	29-44
	6-14	Clay, silty clay	CH	A-7	0	0-4	85-100	67-100	60-100	58-100	49-69	29-44
	14-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Neldore, saline	0-4	Silty clay	CH	A-7	0	0	100	100	93-100	91-100	56-72	32-44
	4-18	Silty clay, clay	CH	A-7	0	0	100	100	93-100	91-100	55-70	32-44
	18-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Volborg	0-3	Silty clay	CL	A-7	0	0	100	100	95-100	80-95	40-50	20-30
	3-17	Silty clay, silty clay loam, clay	CL	A-6, A-7	0	0	100	100	95-100	85-95	35-50	15-30
	17-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Abor	0-3	Silty clay	CH	A-7	0	0	100	100	92-100	89-100	51-68	29-40
	3-15	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	15-32	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	87-100	84-100	46-70	25-44
	32-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Yawdim	0-2	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-90	30-45	10-20
	2-11	Silty clay loam, clay loam, clay	CH, CL	A-7	0	0	100	100	90-100	70-95	40-60	15-35
	11-60	Bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
62E—Neldore-Rock outcrop complex, 15 to 45 percent slopes												
Neldore	0-3	Silty clay	CH	A-7	0	0	100	100	94-100	90-100	51-66	29-36
	3-6	Clay, silty clay	CH	A-7	0	0	93-100	79-100	71-100	68-100	50-70	29-44
	6-14	Clay, silty clay	CH	A-7	0	0-4	85-100	67-100	60-100	58-100	49-69	29-44
	14-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Abor	0-3	Silty clay	CH	A-7	0	0	95-100	90-100	80-100	75-95	40-60	20-35
	3-27	Silty clay, clay, silty clay loam	CH	A-7	0	0	80-100	75-100	65-100	60-95	35-65	20-45
	27-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Volborg	0-3	Silty clay	CL	A-7	0	0	100	100	95-100	80-95	40-50	20-30
	3-17	Silty clay, silty clay loam, clay	CL	A-6, A-7	0	0	100	100	95-100	85-95	35-50	15-30
	17-60	Bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties-- Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
64A—Marvan-Vanda silty clays, 0 to 4 percent slopes												
Marvan	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-65	20-45
	2-9	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	9-17	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	17-30	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	30-60	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
Vanda	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	75-95	40-65	20-45
	2-12	Clay, silty clay, silty clay loam	CH, CL	A-7, A-6	0	0	100	100	95-100	80-95	35-65	15-45
	12-60	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	95-100	80-95	35-65	15-45
Gerdrum	0-3	Loam	CL	A-6	0	0	80-100	75-100	60-90	50-80	31-43	13-18
	3-10	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0	90-100	90-100	85-100	75-95	46-66	25-40
	10-23	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0	90-100	90-100	85-100	75-95	46-66	25-40
	23-60	Clay loam, sandy clay loam, clay	CH, CL, SC	A-7	0	0	90-100	90-100	80-95	45-75	41-61	21-37
Marias	0-4	Silty clay	CH, CL	A-7	0	0	100	100	95-100	90-95	40-60	20-40
	4-28	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-70	25-50
	28-60	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-70	25-50
Lostriver	0-3	Silty clay	CH, CL	A-7	0	0	100	100	85-100	75-95	40-60	20-40
	3-7	Stratified clay loam to clay	CH, CL	A-6, A-7	0	0	100	100	90-100	70-95	35-60	15-40

Engineering Properties– Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
	7-60	Stratified clay loam to clay	CH, CL	A-6, A-7	0	0	100	100	90-100	70-95	35-60	15-40
Harlake	0-5	Silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-65	20-40
	5-60	Stratified silt loam to clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-70	15-45

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
64B—Marvan silty clay, 0 to 8 percent slopes												
Marvan	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-65	20-45
	2-9	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	9-17	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	17-30	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
	30-60	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-100	45-70	25-50
Gerdrum	0-3	Loam	CL	A-6	0	0	80-100	75-100	60-90	50-80	31-43	13-18
	3-10	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0	90-100	90-100	85-100	75-95	46-66	25-40
	10-23	Clay, silty clay, silty clay loam	CH, CL	A-7	0	0	90-100	90-100	85-100	75-95	46-66	25-40
	23-60	Clay loam, sandy clay loam, clay	CH, CL, SC	A-7	0	0	90-100	90-100	80-95	45-75	41-61	21-37
Marias	0-4	Silty clay	CH, CL	A-7	0	0	100	100	95-100	90-95	40-60	20-40
	4-28	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-70	25-50
	28-60	Clay, silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-70	25-50
Vanda	0-2	Silty clay	CH, CL	A-7	0	0	100	100	95-100	75-95	40-65	20-45
	2-12	Clay, silty clay, silty clay loam	CH, CL	A-7, A-6	0	0	100	100	95-100	80-95	35-65	15-45
	12-60	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	95-100	80-95	35-65	15-45
Lostriver	0-3	Silty clay	CH, CL	A-7	0	0	100	100	85-100	75-95	40-60	20-40
	3-7	Stratified clay loam to clay	CH, CL	A-6, A-7	0	0	100	100	90-100	70-95	35-60	15-40
	7-60	Stratified clay loam to clay	CH, CL	A-6, A-7	0	0	100	100	90-100	70-95	35-60	15-40
Harlake	0-5	Silty clay	CH, CL	A-7	0	0	100	100	90-100	75-95	40-65	20-40
	5-60	Stratified silt loam to clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-70	15-45

Engineering Properties— Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
95E—Yawdim-Crago complex, 4 to 35 percent slopes												
Yawdim	0-2	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-90	30-45	10-20
	2-11	Silty clay loam, clay loam, clay	CH, CL	A-7	0	0	100	100	90-100	70-95	40-60	15-35
	11-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Crago	0-4	Gravelly loam	SC	A-6	0	0-15	73-82	55-73	46-69	33-52	27-43	9-18
	4-21	Gravelly loam, gravelly clay loam, very gravelly loam	GC	A-6	0-5	0-22	49-83	21-75	18-74	13-58	30-45	13-25
	21-37	Extremely gravelly loam, very gravelly clay loam, extremely gravelly sandy loam	SP-SC	A-2	0-5	0-15	52-65	16-45	12-39	6-23	27-49	12-20
	37-60	Extremely gravelly loamy sand, extremely gravelly sandy loam, very gravelly sandy loam	SP-SC	A-1	0-5	0-15	53-67	17-47	12-42	2-15	0-41	NP-13
Abor	0-3	Silty clay	CH	A-7	0	0	93-100	82-100	75-100	72-100	51-68	29-40
	3-15	Silty clay, clay, silty clay loam	CH	A-7	0	0-4	91-100	79-100	69-100	66-100	46-70	25-44
	15-32	Silty clay, clay, silty clay loam	CH	A-7	0	0-7	88-100	74-100	64-100	62-100	46-70	25-44
	32-60	Bedrock	—	—	—	—	—	—	—	—	—	—
Musselshell	0-4	Loam	CL	A-6	0	0-30	89-100	67-100	58-93	43-71	31-43	13-18
	4-20	Gravelly loam, loam	CL	A-6	0	0-12	76-100	60-100	48-97	33-73	21-39	6-19
	20-60	Very gravelly sandy loam, very gravelly fine sandy loam, very gravelly loam	SC	A-2	0	6-10	59-71	34-57	27-50	19-36	20-30	6-12

Engineering Properties-- Musselshell County, Montana												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Cabbart	0-3	Loam	CL	A-6	0	0	89-100	74-100	63-94	46-71	29-41	12-19
	3-12	Loam, clay loam, silty clay loam	CL	A-6	0	0	72-100	39-100	32-99	24-77	30-47	12-25
	12-60	Bedrock	—	—	—	—	—	—	—	—	—	—

Data Source Information

Soil Survey Area: Musselshell County, Montana

Survey Area Data: Version 5, Apr 19, 2007



RUSLE2 Related Attributes

This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. The report includes the map unit symbol, the component name, and the percent of the component in the map unit. Soil property data for each map unit component include the hydrologic soil group, erosion factors Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the surface horizon.

Report—RUSLE2 Related Attributes

RUSLE2 Related Attributes— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Hydrologic group	Kf	T factor	Representative value		
					% Sand	% Silt	% Clay
12A—Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled							
Havre	55	B	.37	5	43.8	40.2	16.0
Harlake	30	D	.32	5	5.5	47.0	47.5
Glendive	10	A	.20	5	63.5	26.5	10.0
Bigsandy	3	D	.37	5	41.6	37.4	21.0
Thibadeau	2	D	.32	5	34.2	32.3	33.5
15A—Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded							
Havre, calcareous	45	B	.37	5	41.6	37.4	21.0
Harlake	35	D	.32	5	7.2	47.8	45.0
Glendive	8	A	.20	5	63.5	26.5	10.0
Bigsandy	5	D	.37	5	41.6	37.4	21.0
Havre	5	B	.37	5	41.6	37.4	21.0
Bullhook	2	B	.37	5	41.6	37.4	21.0
60C—Abor-Neldore silty clays, 2 to 8 percent slopes							
Abor	45	D	.37	3	5.5	47.0	47.5
Neldore	35	D	.32	2	7.2	47.8	45.0
Neldore, saline	7	D	.32	2	3.1	44.4	52.5
Yawdim	5	D	.37	2	18.7	47.8	33.5
Marvan	3	D	.37	5	5.3	44.7	50.0
Vanda	3	D	.37	5	5.3	44.7	50.0
Rock outcrop	2	—	—	—	—	—	—

RUSLE2 Related Attributes— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Hydrologic group	Kf	T factor	Representative value		
					% Sand	% Silt	% Clay
60D—Neldore-Abor silty clays, 4 to 15 percent slopes							
Neldore	50	D	.32	2	7.2	47.8	45.0
Abor	35	D	.37	3	5.5	47.0	47.5
Neldore, saline	7	D	.32	2	3.1	44.4	52.5
Yawdim	5	D	.37	2	18.7	47.8	33.5
Rock outcrop	3	—	—	—	—	—	—
61D—Neldore-Neldore, saline silty clays, 4 to 25 percent slopes							
Neldore	45	D	.32	2	7.2	47.8	45.0
Neldore, saline	30	D	.32	2	3.1	44.4	52.5
Volborg	8	D	.32	2	7.2	47.8	45.0
Abor	7	D	.37	3	5.5	47.0	47.5
Rock outcrop	5	—	—	—	—	—	—
Yawdim	5	D	.37	2	18.7	47.8	33.5
62E—Neldore-Rock outcrop complex, 15 to 45 percent slopes							
Neldore	60	D	.32	2	7.2	47.8	45.0
Rock outcrop	30	—	—	—	—	—	—
Abor	5	D	.37	3	5.5	47.0	47.5
Volborg	5	D	.32	2	7.2	47.8	45.0
64A—Marvan-Vanda silty clays, 0 to 4 percent slopes							
Marvan	50	D	.37	5	5.3	44.7	50.0
Vanda	35	D	.37	5	5.3	44.7	50.0
Gerdrum	5	D	.49	2	39.2	37.3	23.5
Marias	5	D	.37	5	5.3	44.7	50.0
Lostriver	3	D	.37	5	5.5	47.0	47.5
Harlake	2	D	.32	5	5.5	47.0	47.5
64B—Marvan silty clay, 0 to 8 percent slopes							
Marvan	80	D	.37	5	5.3	44.7	50.0
Gerdrum	5	D	.49	2	39.2	37.3	23.5
Marias	5	D	.37	5	5.3	44.7	50.0
Vanda	5	D	.37	5	5.3	44.7	50.0
Lostriver	3	D	.37	5	5.5	47.0	47.5
Harlake	2	D	.32	5	5.5	47.0	47.5

RUSLE2 Related Attributes— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Hydrologic group	Kf	T factor	Representative value		
					% Sand	% Silt	% Clay
95E—Yawdim-Crago complex, 4 to 35 percent slopes							
Yawdim	45	D	.37	2	18.7	47.8	33.5
Crago	40	B	.37	2	41.6	37.4	21.0
Abor	5	D	.37	3	5.5	47.0	47.5
Musselshell	5	B	.37	2	39.2	37.3	23.5
Rock outcrop	3	—	—	—	—	—	—
Cabbart	2	C	.37	2	39.8	37.7	22.5

Data Source Information

Soil Survey Area: Musselshell County, Montana

Survey Area Data: Version 5, Apr 19, 2007

Prime and other Important Farmlands

This table lists the map units in the survey area that are considered important farmlands. Important farmlands consist of prime farmland, unique farmland, and farmland of statewide or local importance. This list does not constitute a recommendation for a particular land use.

In an effort to identify the extent and location of important farmlands, the Natural Resources Conservation Service, in cooperation with other interested Federal, State, and local government organizations, has inventoried land that can be used for the production of the Nation's food supply.

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. Because the supply of high-quality farmland is limited, the U.S. Department of Agriculture recognizes that responsible levels of government, as well as individuals, should encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. It could be cultivated land, pastureland, forestland, or other land, but it is not urban or built-up land or water areas. The soil quality, growing season, and moisture supply are those needed for the soil to economically produce sustained high yields of crops when proper management, including water management, and acceptable farming methods are applied. In general, prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. Prime farmland is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent. More detailed information about the criteria for prime farmland is available at the local office of the Natural Resources Conservation Service.

For some of the soils identified in the table as prime farmland, measures that overcome a hazard or limitation, such as flooding, wetness, and droughtiness, are needed. Onsite evaluation is needed to determine whether or not the hazard or limitation has been overcome by corrective measures.

A recent trend in land use in some areas has been the loss of some prime farmland to industrial and urban uses. The loss of prime farmland to other uses puts pressure on marginal lands, which generally are more erodible, droughty, and less productive and cannot be easily cultivated.

Unique farmland is land other than prime farmland that is used for the production of specific high-value food and fiber crops, such as citrus, tree nuts, olives, cranberries, and other fruits and vegetables. It has the special combination of soil quality, growing season, moisture supply, temperature, humidity, air drainage, elevation, and aspect needed for the soil to economically produce sustainable high yields of these crops when properly managed. The water supply is dependable and of adequate quality. Nearness to markets is an additional consideration. Unique farmland is not based on national criteria. It commonly is in areas where there is a special microclimate, such as the wine country in California.

In some areas, land that does not meet the criteria for prime or unique farmland is considered to be *farmland of statewide importance* for the production of food, feed, fiber, forage, and oilseed crops. The criteria for defining and delineating farmland of statewide importance are determined by the appropriate State agencies.

Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Some areas may produce as high a yield as prime farmland if conditions are favorable. Farmland of statewide importance may include tracts of land that have been designated for agriculture by State law.

In some areas that are not identified as having national or statewide importance, land is considered to be *farmland of local importance* for the production of food, feed, fiber, forage, and oilseed crops. This farmland is identified by the appropriate local agencies. Farmland of local importance may include tracts of land that have been designated for agriculture by local ordinance.

Report—Prime and other Important Farmlands

Prime and other Important Farmlands— Musselshell County, Montana		
Map Symbol	Map Unit Name	Farmland Classification
12A	Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled	Farmland of statewide importance
15A	Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded	Farmland of statewide importance
60C	Abor-Neldore silty clays, 2 to 8 percent slopes	Not prime farmland
60D	Neldore-Abor silty clays, 4 to 15 percent slopes	Not prime farmland
61D	Neldore-Neldore, saline silty clays, 4 to 25 percent slopes	Not prime farmland
62E	Neldore-Rock outcrop complex, 15 to 45 percent slopes	Not prime farmland
64A	Marvan-Vanda silty clays, 0 to 4 percent slopes	Not prime farmland
64B	Marvan silty clay, 0 to 8 percent slopes	Not prime farmland
95E	Yawdim-Crago complex, 4 to 35 percent slopes	Not prime farmland

Data Source Information

Soil Survey Area: Musselshell County, Montana

Survey Area Data: Version 5, Apr 19, 2007

Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (*K_{sat}*), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (K_{sat}) refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (*K_{sat}*) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The content of organic matter in a soil can be maintained by returning crop residue to the soil.

Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (K_w and K_f) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and K_{sat} . Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor K_w indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor K_f indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service.
National soil survey handbook, title 430-VI. (<http://soils.usda.gov>)

Report—Physical Soil Properties

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
12A—Havre- Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled														
Havre	0-4	—	—	10-22	1.15-1.35	4.00-14.00	0.16-0.20	0.0-2.9	0.5-2.0	.37	.37	5	5	56
	4-60	—	—	18-35	1.35-1.55	4.00-14.00	0.14-0.18	0.0-2.9	0.5-1.0	.28	.28			
Harlake	0-5	—	—	40-55	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	—	—	25-60	1.30-1.50	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.37	.37			
Glendive	0-8	—	—	5-15	1.40-1.60	14.00-42.00	0.10-0.13	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	8-14	—	—	5-18	1.35-1.60	14.00-42.00	0.15-0.19	0.0-2.9	0.5-1.0	.32	.32			
	14-60	—	—	5-18	1.35-1.60	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.20	.20			
Bigsandy	0-3	—	—	15-27	1.07-1.36	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.37	.37	5	5	56
	3-14	—	—	18-35	1.30-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.0-0.5	.37	.37			
	14-60	—	—	18-35	1.30-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.0-0.5	.37	.37			
Thibadeau	0-2	—	—	15-55	1.30-1.55	4.00-14.00	0.13-0.17	3.0-5.9	0.5-2.0	.32	.32	5	4L	86
	2-14	—	—	18-35	1.30-1.55	0.42-1.40	0.11-0.17	3.0-5.9	0.5-2.0	.28	.32			
	14-60	—	—	18-35	1.30-1.55	0.42-1.40	0.11-0.17	3.0-5.9	0.5-2.0	.28	.32			

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
15A—Havre- Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded														
Havre, calcareous	0-4	—	—	15-27	1.15-1.35	4.00-14.00	0.16-0.20	0.0-2.9	0.5-2.0	.37	.37	5	4L	86
	4-60	—	—	18-35	1.35-1.55	4.00-14.00	0.14-0.18	0.0-2.9	0.5-1.0	.28	.28			
Harlake	0-5	—	—	40-50	1.30-1.50	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	—	—	25-60	1.30-1.50	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.37	.37			
Glendive	0-8	—	—	5-15	1.30-1.50	14.00-42.00	0.13-0.16	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	8-14	—	—	5-18	1.30-1.50	14.00-42.00	0.15-0.18	0.0-2.9	0.5-1.0	.32	.32			
	14-60	—	—	5-18	1.35-1.60	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.20	.20			
Bigsandy	0-3	—	—	15-27	1.07-1.36	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.37	.37	5	5	56
	3-14	—	—	18-35	1.30-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.0-0.5	.37	.37			
	14-60	—	—	18-35	1.30-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.0-0.5	.37	.37			
Havre	0-4	—	—	15-27	1.15-1.35	4.00-14.00	0.16-0.20	0.0-2.9	0.5-2.0	.37	.37	5	6	48
	4-60	—	—	18-35	1.35-1.55	4.00-14.00	0.14-0.18	0.0-2.9	0.5-1.0	.28	.28			
Bullhook	0-5	—	—	15-27	1.30-1.50	4.00-14.00	0.13-0.18	0.0-2.9	0.5-2.0	.37	.37	5	6	48
	5-11	—	—	18-35	1.30-1.55	4.00-14.00	0.12-0.20	3.0-5.9	0.5-2.0	.32	.32			
	11-60	—	—	18-35	1.30-1.55	4.00-14.00	0.11-0.17	3.0-5.9	0.5-2.0	.32	.32			

Physical Soil Properties-- Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
60C—Abor- Neldore silty clays, 2 to 8 percent slopes														
Abor	0-3	—	—	40-55	1.20-1.40	1.40-4.00	0.14-0.18	6.0-8.9	1.0-2.0	.37	.37	3	4	86
	3-15	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	15-32	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	32-60	—	—	—	—	0.00-1.40	—	—	—					
Neldore	0-3	—	—	40-50	1.20-1.40	0.42-1.40	0.14-0.18	6.0-8.9	1.0-3.0	.32	.32	2	4	86
	3-6	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.5-1.0	.32	.32			
	6-14	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.0-0.5	.32	.32			
	14-60	—	—	—	—	0.00-1.40	—	—	—					
Neldore, saline	0-4	—	—	45-60	1.20-1.40	0.42-1.40	0.11-0.13	6.0-8.9	1.0-2.0	.32	.32	2	4	86
	4-18	—	—	45-60	1.30-1.50	0.42-1.40	0.10-0.12	6.0-8.9	0.5-1.0	.32	.32			
	18-60	—	—	—	—	0.00-1.40	0.00-0.00	—	—					
Yawdim	0-2	—	—	27-40	1.10-1.30	1.40-4.00	0.17-0.20	3.0-5.9	0.5-1.0	.37	.37	2	4	86
	2-16	—	—	35-50	1.20-1.40	0.42-1.40	0.15-0.18	6.0-8.9	0.0-0.5	.32	.32			
	16-60	—	—	—	—	0.00-1.40	—	—	—					
Marvan	0-2	—	—	40-60	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-9	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	9-17	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	17-30	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
	30-60	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
Vanda	0-2	—	—	40-60	1.25-1.45	0.01-0.42	0.08-0.12	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-12	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			
	12-60	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
Rock outcrop	—	—	—	—	—	—	—	—	—					
60D—Neldore- Abor silty clays, 4 to 15 percent slopes														
Neldore	0-3	—	—	40-50	1.20-1.40	0.42-1.40	0.14-0.18	6.0-8.9	1.0-3.0	.32	.32	2	4	86
	3-6	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.5-1.0	.32	.32			
	6-14	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.0-0.5	.32	.32			
	14-60	—	—	—	—	0.00-1.40	—	—	—					
Abor	0-3	—	—	40-55	1.20-1.40	1.40-4.00	0.14-0.18	6.0-8.9	1.0-2.0	.37	.37	3	4	86
	3-15	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	15-32	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	32-60	—	—	—	—	0.00-1.40	—	—	—					
Neldore, saline	0-4	—	—	45-60	1.20-1.40	0.42-1.40	0.11-0.13	6.0-8.9	1.0-2.0	.32	.32	2	4	86
	4-18	—	—	45-60	1.30-1.50	0.42-1.40	0.10-0.12	6.0-8.9	0.5-1.0	.32	.32			
	18-60	—	—	—	—	0.00-1.40	0.00-0.00	—	—					
Yawdim	0-2	—	—	27-40	1.10-1.30	1.40-4.00	0.17-0.20	3.0-5.9	0.5-1.0	.37	.37	2	4	86
	2-16	—	—	35-50	1.20-1.40	0.42-1.40	0.15-0.18	6.0-8.9	0.0-0.5	.32	.32			
	16-60	—	—	—	—	0.00-1.40	—	—	—					
Rock outcrop	—	—	—	—	—	—	—	—	—					

Physical Soil Properties– Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
61D—Neldore- Neldore, saline silty clays, 4 to 25 percent slopes														
Neldore	0-3	—	—	40-50	1.20-1.40	0.42-1.40	0.14-0.18	6.0-8.9	1.0-3.0	.32	.32	2	4	86
	3-6	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.5-1.0	.32	.32			
	6-14	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.0-0.5	.32	.32			
	14-60	—	—	—	—	0.00-1.40	—	—	—					
Neldore, saline	0-4	—	—	45-60	1.20-1.40	0.42-1.40	0.11-0.13	6.0-8.9	1.0-2.0	.32	.32	2	4	86
	4-18	—	—	45-60	1.30-1.50	0.42-1.40	0.10-0.12	6.0-8.9	0.5-1.0	.32	.32			
	18-60	—	—	—	—	0.00-1.40	0.00-0.00	—	—					
Volborg	0-3	—	—	40-50	1.30-1.50	0.42-1.40	0.14-0.17	6.0-8.9	1.0-2.0	.32	.32	2	2	134
	3-17	—	—	35-50	1.30-1.50	0.42-1.40	0.10-0.12	6.0-8.9	0.5-1.0	.32	.32			
	17-60	—	—	—	—	0.00-1.40	—	—	—					
Abor	0-3	—	—	40-55	1.20-1.40	1.40-4.00	0.14-0.18	6.0-8.9	1.0-2.0	.37	.37	3	4	86
	3-15	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	15-32	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	32-60	—	—	—	—	0.00-1.40	—	—	—					
Rock outcrop	—	—	—	—	—	—	—	—	—					
Yawdim	0-2	—	—	27-40	1.10-1.30	1.40-4.00	0.17-0.20	3.0-5.9	0.5-1.0	.37	.37	2	4	86
	2-11	—	—	35-50	1.20-1.40	0.42-1.40	0.15-0.18	6.0-8.9	0.0-0.5	.32	.32			
	11-60	—	—	—	—	0.00-1.40	—	—	—					

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
62E—Neldore- Rock outcrop complex, 15 to 45 percent slopes														
Neldore	0-3	—	—	40-50	1.20-1.40	0.42-1.40	0.14-0.18	6.0-8.9	1.0-3.0	.32	.32	2	4	86
	3-6	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.5-1.0	.32	.32			
	6-14	—	—	40-60	1.30-1.50	0.42-1.40	0.12-0.16	6.0-8.9	0.0-0.5	.32	.32			
	14-60	—	—	—	—	0.00-1.40	—	—	—					
Rock outcrop	—	—	—	—	—	—	—	—	—					
Abor	0-3	—	—	40-55	1.20-1.40	1.40-4.00	0.14-0.18	6.0-8.9	1.0-2.0	.37	.37	3	4	86
	3-27	—	—	35-60	1.30-1.55	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	27-60	—	—	—	—	0.00-1.40	—	—	—					
Volborg	0-3	—	—	40-50	1.30-1.50	0.42-1.40	0.14-0.17	6.0-8.9	1.0-2.0	.32	.32	2	2	134
	3-17	—	—	35-50	1.30-1.50	0.42-1.40	0.10-0.12	6.0-8.9	0.5-1.0	.32	.32			
	17-60	—	—	—	—	0.00-1.40	—	—	—					

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
64A—Marvan- Vanda silty clays, 0 to 4 percent slopes														
Marvan	0-2	—	—	40-60	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-9	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	9-17	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	17-30	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
	30-60	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
Vanda	0-2	—	—	40-60	1.25-1.45	0.01-0.42	0.08-0.12	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-12	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			
	12-60	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			
Gerdrum	0-3	—	—	20-27	1.15-1.35	4.00-14.00	0.18-0.22	0.0-2.9	1.0-3.0	.49	.49	2	6	48
	3-10	—	—	35-55	1.30-1.55	0.01-0.42	0.10-0.13	6.0-8.9	0.5-1.0	.37	.37			
	10-23	—	—	35-55	1.30-1.55	0.01-0.42	0.10-0.13	6.0-8.9	0.5-1.0	.37	.37			
	23-60	—	—	30-50	1.30-1.55	0.01-0.42	0.08-0.10	6.0-8.9	0.0-0.5	.43	.43			
Marias	0-4	—	—	40-60	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	4-28	—	—	40-60	1.30-1.50	0.01-0.42	0.12-0.16	6.0-8.9	0.5-1.0	.37	.37			
	28-60	—	—	40-60	1.30-1.55	0.01-0.42	0.12-0.16	6.0-8.9	0.0-0.5	.37	.37			
Lostriver	0-3	—	—	40-55	1.40-1.55	0.42-1.40	0.12-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	3-7	—	—	35-55	1.40-1.55	0.42-1.40	0.12-0.18	6.0-8.9	0.5-1.0	.32	.32			
	7-60	—	—	35-55	1.40-1.55	0.42-1.40	0.11-0.17	6.0-8.9	0.5-1.0	.32	.32			
Harlake	0-5	—	—	40-55	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	—	—	25-60	1.30-1.50	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.37	.37			

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
64B—Marvan silty clay, 0 to 8 percent slopes														
Marvan	0-2	—	—	40-60	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-9	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	9-17	—	—	45-60	1.30-1.50	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.37	.37			
	17-30	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
	30-60	—	—	45-60	1.30-1.50	0.01-0.42	0.09-0.11	6.0-8.9	0.0-0.5	.37	.37			
Gerdrum	0-3	—	—	20-27	1.15-1.35	4.00-14.00	0.18-0.22	0.0-2.9	1.0-3.0	.49	.49	2	6	48
	3-10	—	—	35-55	1.30-1.55	0.01-0.42	0.10-0.13	6.0-8.9	0.5-1.0	.37	.37			
	10-23	—	—	35-55	1.30-1.55	0.01-0.42	0.10-0.13	6.0-8.9	0.5-1.0	.37	.37			
	23-60	—	—	30-50	1.30-1.55	0.01-0.42	0.08-0.10	6.0-8.9	0.0-0.5	.43	.43			
Marias	0-4	—	—	40-60	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	4-28	—	—	40-60	1.30-1.50	0.01-0.42	0.12-0.16	6.0-8.9	0.5-1.0	.37	.37			
	28-60	—	—	40-60	1.30-1.55	0.01-0.42	0.12-0.16	6.0-8.9	0.0-0.5	.37	.37			
Vanda	0-2	—	—	40-60	1.25-1.45	0.01-0.42	0.08-0.12	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	2-12	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			
	12-60	—	—	35-60	1.30-1.50	0.01-0.42	0.08-0.12	6.0-8.9	0.0-0.5	.37	.37			
Lostriver	0-3	—	—	40-55	1.40-1.55	0.42-1.40	0.12-0.18	6.0-8.9	0.5-2.0	.37	.37	5	4	86
	3-7	—	—	35-55	1.40-1.55	0.42-1.40	0.12-0.18	6.0-8.9	0.5-1.0	.32	.32			
	7-60	—	—	35-55	1.40-1.55	0.42-1.40	0.11-0.17	6.0-8.9	0.5-1.0	.32	.32			
Harlake	0-5	—	—	40-55	1.25-1.45	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	—	—	25-60	1.30-1.50	0.42-1.40	0.14-0.18	6.0-8.9	0.5-1.0	.37	.37			

Physical Soil Properties— Musselshell County, Montana														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
95E—Yawdim- Crago complex, 4 to 35 percent slopes														
Yawdim	0-2	—	—	27-40	1.10-1.30	1.40-4.00	0.17-0.20	3.0-5.9	0.5-1.0	.37	.37	2	4	86
	2-11	—	—	35-50	1.20-1.40	0.42-1.40	0.15-0.18	6.0-8.9	0.0-0.5	.32	.32			
	11-60	—	—	—	—	0.00-1.40	—	—	—					
Crago	0-4	—	—	15-27	1.15-1.35	4.00-14.00	0.10-0.12	0.0-2.9	1.0-3.0	.20	.37	2	4L	86
	4-21	—	—	20-35	1.30-1.50	4.00-14.00	0.07-0.08	0.0-2.9	0.5-1.0	.15	.37			
	21-37	—	—	15-30	1.30-1.55	4.00-14.00	0.03-0.04	0.0-2.9	0.0-5.0	.05	.20			
	37-60	—	—	0-20	1.45-1.70	42.00-141.00	0.02-0.03	0.0-2.9	0.0-5.0	.05	.17			
Abor	0-3	—	—	40-55	1.20-1.40	1.40-4.00	0.13-0.15	6.0-8.9	1.0-2.0	.37	.37	3	4	86
	3-15	—	—	35-60	1.30-1.55	0.01-0.42	0.12-0.15	6.0-8.9	0.5-1.0	.32	.37			
	15-32	—	—	35-60	1.30-1.55	0.01-0.42	0.12-0.15	6.0-8.9	0.5-1.0	.28	.37			
	32-60	—	—	—	—	0.00-1.40	—	—	—					
Musselshell	0-4	—	—	20-27	1.15-1.35	4.00-14.00	0.16-0.20	0.0-2.9	1.0-3.0	.37	.37	2	4L	86
	4-20	—	—	10-27	1.40-1.60	4.00-14.00	0.14-0.18	0.0-2.9	0.5-1.0	.20	.37			
	20-60	—	—	10-18	1.50-1.75	14.00-42.00	0.06-0.10	0.0-2.9	0.0-0.5	.05	.37			
Rock outcrop	—	—	—	—	—	—	—	—	—					
Cabbart	0-3	—	—	18-27	1.20-1.40	4.00-14.00	0.17-0.21	0.0-2.9	1.0-2.0	.32	.37	2	4L	86
	3-12	—	—	18-35	1.30-1.50	4.00-14.00	0.15-0.19	3.0-5.9	0.5-1.0	.24	.37			
	12-60	—	—	—	—	1.40-4.00	—	—	—					

Data Source Information

Soil Survey Area: Musselshell County, Montana

Survey Area Data: Version 5, Apr 19, 2007



Ponds and Embankments

This table gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Pond reservoir areas hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the saturated hydraulic conductivity (Ksat) of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of 5 or 6 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A high water table affects the amount of usable material. It also affects trafficability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent water table, Ksat of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Information in this table is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this table. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Report—Ponds and Embankments

[The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
12A—Havre-Harlake complex, 0 to 2 percent slopes, occasionally flooded, channeled							
Havre	55	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Piping	1.00	Depth to water	1.00
Harlake	30	Not limited		Somewhat limited		Very limited	
				Hard to pack	0.72	Depth to water	1.00
Glendive	10	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.07	Depth to water	1.00
Bigsandy	3	Somewhat limited		Very limited		Somewhat limited	
		Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
				Piping	1.00	Cutbanks cave	0.10
						Salinity and saturated zone	0.06
Thibadeau	2	Not limited		Very limited		Very limited	
				Piping	1.00	Slow refill	1.00
				Depth to saturated zone	0.68	Salinity and saturated zone	0.78
				Salinity	0.50	Depth to saturated zone	0.14
						Cutbanks cave	0.10

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
15A—Havre-Harlake complex, calcareous, 0 to 2 percent slopes, rarely flooded							
Havre, calcareous	45	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Piping	1.00	Depth to water	1.00
Harlake	35	Not limited		Somewhat limited		Very limited	
				Hard to pack	0.66	Depth to water	1.00
Glendive	8	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.07	Depth to water	1.00
Bigsandy	5	Somewhat limited		Very limited		Somewhat limited	
		Seepage	0.05	Depth to saturated zone	1.00	Slow refill	0.95
				Piping	1.00	Cutbanks cave	0.10
						Salinity and saturated zone	0.06
Havre	5	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Piping	1.00	Depth to water	1.00
Bullhook	2	Somewhat limited		Very limited		Very limited	
		Seepage	0.70	Piping	1.00	Depth to water	1.00
				Salinity	0.50		

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
60C—Abor-Neldore silty clays, 2 to 8 percent slopes							
Abor	45	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.08	Hard to pack	0.82	Depth to water	1.00
				Thin layer	0.81		
Neldore	35	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.69	Thin layer	1.00	Depth to water	1.00
				Hard to pack	0.98		
Neldore, saline	7	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.53	Thin layer	1.00	Depth to water	1.00
				Hard to pack	1.00		
Yawdim	5	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.61	Thin layer	1.00	Depth to water	1.00
				Hard to pack	0.07		
Marvan	3	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.13		
Vanda	3	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.50		
Rock outcrop	2	Not rated		Not rated		Not rated	
60D—Neldore-Abor silty clays, 4 to 15 percent slopes							
Neldore	50	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.69	Thin layer	1.00	Depth to water	1.00
				Hard to pack	0.98		
Abor	35	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.08	Hard to pack	0.82	Depth to water	1.00
				Thin layer	0.81		
Neldore, saline	7	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.53	Thin layer	1.00	Depth to water	1.00
				Hard to pack	1.00		
Yawdim	5	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.61	Thin layer	1.00	Depth to water	1.00
				Hard to pack	0.07		
Rock outcrop	3	Not rated		Not rated		Not rated	

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
61D—Neldore-Neldore, saline silty clays, 4 to 25 percent slopes							
Neldore	45	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.69	Thin layer	1.00	Depth to water	1.00
		Slope	0.03	Hard to pack	0.98		
Neldore, saline	30	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.53	Thin layer	1.00	Depth to water	1.00
				Hard to pack	1.00		
Volborg	8	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.58	Thin layer	1.00	Depth to water	1.00
		Slope	0.03	Piping	0.22		
Abor	7	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.08	Hard to pack	0.82	Depth to water	1.00
				Thin layer	0.81		
Rock outcrop	5	Not rated		Not rated		Not rated	
Yawdim	5	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.80	Thin layer	1.00	Depth to water	1.00
		Slope	0.03	Hard to pack	0.05		
62E—Neldore-Rock outcrop complex, 15 to 45 percent slopes							
Neldore	60	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.69	Thin layer	1.00	Depth to water	1.00
		Slope	0.50	Hard to pack	0.98		
Rock outcrop	30	Not rated		Not rated		Not rated	
Abor	5	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.28	Thin layer	0.93	Depth to water	1.00
		Depth to bedrock	0.19	Hard to pack	0.67		
Volborg	5	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.58	Thin layer	1.00	Depth to water	1.00
		Slope	0.03	Piping	0.22		

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
64A—Marvan-Vanda silty clays, 0 to 4 percent slopes							
Marvan	50	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.13		
Vanda	35	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.50		
Gerdrum	5	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.50		
Marias	5	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
Lostriver	3	Not limited		Very limited		Very limited	
				Piping	1.00	Slow refill	1.00
				Salinity	0.50	Depth to saturated zone	0.90
						Salinity and saturated zone	0.78
						Cutbanks cave	0.10
Harlake	2	Not limited		Somewhat limited		Very limited	
				Hard to pack	0.72	Depth to water	1.00

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
64B—Marvan silty clay, 0 to 8 percent slopes							
Marvan	80	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.13		
Gerdrum	5	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.50		
Marias	5	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
Vanda	5	Not limited		Very limited		Very limited	
				Hard to pack	1.00	Depth to water	1.00
				Salinity	0.50		
Lostriver	3	Not limited		Very limited		Very limited	
				Piping	1.00	Slow refill	1.00
				Salinity	0.50	Depth to saturated zone	0.90
						Salinity and saturated zone	0.78
						Cutbanks cave	0.10
Harlake	2	Not limited		Somewhat limited		Very limited	
				Hard to pack	0.72	Depth to water	1.00

Ponds and Embankments— Musselshell County, Montana							
Map symbol and soil name	Pct. of map unit	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
95E—Yawdim-Crago complex, 4 to 35 percent slopes							
Yawdim	45	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.80	Thin layer	1.00	Depth to water	1.00
		Slope	0.13	Hard to pack	0.05		
Crago	40	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.10	Depth to water	1.00
		Slope	0.13				
Abor	5	Somewhat limited		Somewhat limited		Very limited	
		Depth to bedrock	0.08	Hard to pack	0.82	Depth to water	1.00
				Thin layer	0.81		
Musselshell	5	Very limited		Not limited		Very limited	
		Seepage	1.00			Depth to water	1.00
Rock outcrop	3	Not rated		Not rated		Not rated	
Cabbart	2	Somewhat limited		Very limited		Very limited	
		Depth to bedrock	0.78	Thin layer	1.00	Depth to water	1.00
		Slope	0.13	Piping	0.16		
		Seepage	0.03				

Data Source Information

Soil Survey Area: Musselshell County, Montana

Survey Area Data: Version 5, Apr 19, 2007

Name	Title
Resource Assessment Unit	
Preservation Officer	
EIS Review	Montana Office, Federal Building
Sub-office Coordinator	Helena Regulatory Office
Val Robertson	
Mr. Dale Old Horn, THPO	
John Murray, THPO	
Tribal Historic Preservation Officer	

Agency	Address 1
Montana Department of Commerce	P.O. Box 200501
Montana Department of Fish, Wildlife & Parks	
Montana Department of Environmental Quality	P.O. Box 200901
Montana Department of Natural Resources & Conservation	P.O. Box 201601
Montana Environmental Quality Council	P.O. Box 201704
Montana State Historical Preservation	P.O. Box 201202
U.S. Environmental Protection Agency	
U.S. Fish & Wildlife Service	
U.S Army Corps of Engineers	
Montana Department of Transportation	P.O. Box 201001
Natural Resource Conservation Service	
Crow Tribe of Indians	P.O. Box 676
Blackfeet Tribe of the Blackfeet Indian Reservation of Montana	P.O. Box 2809
Fort Belknap Indian Community	P.O. Box 66

Address 2	City, State Zip
301 South Park	Helena, MT 59620-0501
2300 Lake Elmo Drive	Billings, MT 59105
1520 East Sixth Avenue	Helena, MT 59620-0901
1625 Eleventh Avenue	Helena, MT 59620-1601
P.O. Box 201704	Helena, MT 59620-1704
1410 Eighth Avenue	Helena, MT 59620-1202
10 West 15th Street, STE 3200	Helena, MT 59626
2900 Fourth Avenue N, Room 301	Billings, MT 59101
10 W. 15th Street, Suite 2200	Helena, MT 59626
	Helena, MT 59620
1629 Avenue D, Building A	Billings, MT 59102
	Crow Agency, MT 59022
	Browning, MT 59417
	Harlem, MT 59526

April 9, 2008

Montana Department of Commerce
P.O. Box 200501
301 South Park
Helena, MT 59620-0501

**RE: Water System Improvements
Melstone, Montana**

Dear Reviewer:

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If you need further information or have any questions regarding the project, please feel free to contact me at (406) 652-5000 or cbennett@greatwesteng.com. Thank you.

Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Montana Department of Commerce has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

Montana Department of Fish, Wildlife & Parks
2300 Lake Elmo Drive
Billings, MT 59105

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Printed Name

Signature

Date

April 9, 2008

Montana Department of Environmental Quality
P.O. Box 200901
1520 East Sixth Avenue
Helena, MT 59620-0901

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Melstone, Montana**

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Crystal Bennett, EI
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Printed Name

Signature

Date

April 9, 2008

Montana Department of Natural Resources & Conservation
P.O. Box 201601
1625 Eleventh Avenue
Helena, MT 59620-1601

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Melstone, Montana**

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Project Engineer

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Printed Name

Signature

Date

April 9, 2008

Montana Environmental Quality Council
P.O. Box 201704
Helena, MT 59620-1704

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Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Montana Environmental Quality Council has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

Preservation Officer
Montana State Historical Preservation
P.O. Box 201202
1410 Eighth Avenue
Helena, MT 59620-1202

**RE: Water System Improvements
Melstone, Montana**

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Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Montana State Historical Preservation has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

Montana Office, Federal Building EIS Review
U.S. Environmental Protection Agency
10 West 15th Street, STE 3200
Helena, MT 59626

**RE: Water System Improvements
Melstone, Montana**

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Crystal Bennett, EI
Project Engineer

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Printed Name

Signature

Date

April 9, 2008

Sub-office Coordinator
U.S. Fish & Wildlife Service
2900 Fourth Avenue N, Room 301
Billings, MT 59101

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Crystal Bennett, EI
Project Engineer

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Printed Name

Signature

Date

April 9, 2008

U.S Army Corps of Engineers
10 W. 15th Street, Suite 2200
Helena, MT 59626

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Melstone, Montana**

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Printed Name

Signature

Date

April 9, 2008

Montana Department of Transportation
P.O. Box 201001
Helena, MT 59620

**RE: Water System Improvements
Melstone, Montana**

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Printed Name

Signature

Date

April 9, 2008

Natural Resource Conservation Service
1629 Avenue D, Building A
Billings, MT 59102

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Please review the proposed improvements and return to us any comments you may have regarding the potential environmental impacts of the project, if any, within 30 days. A written response from your program is required by the funding agencies that will be utilized on this project. If you have no comment on this project, please check the box below and countersign the end of this letter and return to us at the address listed above.

If you need further information or have any questions regarding the project, please feel free to contact me at (406) 652-5000 or cbennett@greatwesteng.com. Thank you.

Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Natural Resource Conservation Service has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

Mr. Dale Old Horn, THPO
Crow Tribe of Indians
P.O. Box 676
Crow Agency, MT 59022

**RE: Water System Improvements
Melstone, Montana**

Dear Reviewer:

The Town of Melstone is in the process of improving their water system. In order to determine needed improvements, the Town has updated their Preliminary Engineering Report (PER) for the water system in 2008. After evaluating possible alternatives, the PER recommended improvements are to construct two new wells approximately 10 miles west of Melstone, a small wellhouse near the wells, and to install approximately 12-miles of 6-inch pipeline to connect the wells to the Town's existing treatment plant.

Enclosed please find a map indicating the location of the proposed wells and pipeline improvements. The preferred site for the wells and wellhouse is the southeast quarter of Section 14 in **Township 9 North, Range 29 East**. However, if land cannot be obtained, the alternate site would be the northwest quarter of Section 14 or the northeast quarter of Section 15 in Township 9 North, Range 29 East.

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Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Crow Tribe of Indians has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

John Murray, THPO
Blackfeet Tribe of the Blackfeet Indian Reservation of Montana
P.O. Box 2809
Browning, MT 59417

**RE: Water System Improvements
Melstone, Montana**

Dear Reviewer:

The Town of Melstone is in the process of improving their water system. In order to determine needed improvements, the Town has updated their Preliminary Engineering Report (PER) for the water system in 2008. After evaluating possible alternatives, the PER recommended improvements are to construct two new wells approximately 10 miles west of Melstone, a small wellhouse near the wells, and to install approximately 12-miles of 6-inch pipeline to connect the wells to the Town's existing treatment plant.

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Please review the proposed improvements and return to us any comments you may have regarding the potential environmental impacts of the project, if any, within 30 days. A written response from your program is required by the funding agencies that will be utilized on this project. If you have no comment on this project, please check the box below and countersign the end of this letter and return to us at the address listed above.

If you need further information or have any questions regarding the project, please feel free to contact me at (406) 652-5000 or cbennett@greatwesteng.com. Thank you.

Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Blackfeet Tribe of the Blackfeet Indian Reservation of Montana has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

April 9, 2008

Tribal Historic Preservation Officer
Fort Belknap Indian Community
P.O. Box 66
Harlem, MT 59526

**RE: Water System Improvements
Melstone, Montana**

Dear Reviewer:

The Town of Melstone is in the process of improving their water system. In order to determine needed improvements, the Town has updated their Preliminary Engineering Report (PER) for the water system in 2008. After evaluating possible alternatives, the PER recommended improvements are to construct two new wells approximately 10 miles west of Melstone, a small wellhouse near the wells, and to install approximately 12-miles of 6-inch pipeline to connect the wells to the Town's existing treatment plant.

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Please review the proposed improvements and return to us any comments you may have regarding the potential environmental impacts of the project, if any, within 30 days. A written response from your program is required by the funding agencies that will be utilized on this project. If you have no comment on this project, please check the box below and countersign the end of this letter and return to us at the address listed above.

If you need further information or have any questions regarding the project, please feel free to contact me at (406) 652-5000 or cbennett@greatwesteng.com. Thank you.

Sincerely,

Great West Engineering, Inc.

Crystal Bennett, EI
Project Engineer

[] The Fort Belknap Indian Community has reviewed the enclosed proposed project regarding the Water System Improvements for Melstone, Montana and has no comments.

Printed Name

Signature

Date

UNIFORM ENVIRONMENTAL CHECKLIST

As the engineer that prepared the preliminary engineering report, I, Chad E. Hanson PE, have reviewed the information presented below and believe that it accurately identifies the environmental resources in the area and the potential impacts that the project could have on those resources. In addition, the required state and federal agencies were provided with the required information about the project and requested to provide comments on the proposed public facility project. Their comments have been incorporated into and attached to the Preliminary Engineering Report.

Engineer's Signature: _____ Date: _____

Key Letter: N – No Impact/Not Applicable B – Potentially Beneficial A – Potentially Adverse
P – Approval/Permits Required M – Mitigation Required

PHYSICAL ENVIRONMENT	
Key N	1. Soil Suitability, Topographic and/or Geologic Constraints (e.g., soil slump, steep slopes, subsidence, seismic activity) <i>Comments and Source of Information:</i> No unusual difficulties are anticipated due to soil suitability, topographic, or geological constraints. (Engineer)
Key N	2. Hazardous Facilities (e.g., power lines, hazardous waste sites, acceptable distance from explosive and flammable hazards including chemical/ petrochemical storage tanks, underground fuel storage tanks, and related facilities such as natural gas storage facilities & propane storage tanks) <i>Comments and Source of Information:</i> The project is not anticipated to encounter or affect any hazardous facilities. (Engineer)
Key M	3. Effects of Project on Surrounding Air Quality or Any Kind of Effects of Existing Air Quality on Project (e.g., dust, odors, emissions) <i>Comments and Source of Information:</i> Temporary effects to surrounding air quality may occur during construction due to dust and construction activities. The plans and specifications will include requirements for dust abatement. (Engineer)
Key N	4. Groundwater Resources & Aquifers (e.g., quantity, quality, distribution, depth to groundwater, sole source aquifers) <i>Comments and Source of Information:</i> New groundwater wells will be constructed with care to minimize disturbance of and impacts to the aquifers, and the design of the wells will include a sealant to prevent contamination of the aquifers. In addition, a search of the Montana Bureau of Mines and Geology (MBMG) website for additional wells in the Fox Hills aquifer found none within a 20 square mile radius. This further supports that the proposed project is anticipated to have a negligible impact to the groundwater resources. (2008 PER)
Key B	5. Surface Water/Water Quality, Quantity & Distribution (e.g., streams, lakes, storm runoff, irrigation systems, canals)

Key Letter: N – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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	<i>Comments and Source of Information:</i> The project will reduce the amount of water being drawn from the over-used Musselshell River. (Irrigation Circuit Rider Richard VanCampen per 2002 Checklist)
Key <u>M/P</u>	6. Floodplains & Floodplain Management (Identify any floodplains within one mile of the boundary of the project.) <i>Comments and Source of Information:</i> The proposed pipeline will cross the floodplain of the Musselshell River, but impacts will be minimal. Any disturbance will be fully restored to pre-construction conditions, and the project will not result in the construction of any new structures in the floodplain. A Nationwide Permit 12 from the Army Corps of Engineers, an SPA 124 permit from the Montana Fish, Wildlife, and Parks (FWP), and a County floodplain permit from the County floodplain coordination will be obtained as necessary during the design phase, prior to construction. (Letter from Army Corps of Engineers and Engineer)
Key <u>N</u>	7. Wetlands Protection (Identify any wetlands within one mile of the boundary of the project.) <i>Comments and Source of Information:</i> The Natural Resource Information System (NRIS) website was searched for wetlands mapping of the area. However, wetlands maps do not exist for any of Musselshell County. The US Fish and Wildlife website was also reviewed, which indicated “no data” for the area. The Engineer did not note any wetlands in the area and no negative impacts are anticipated as a result of the proposed project. (2008 PER)
Key <u>M/P</u>	8. Agricultural Lands, Production, & Farmland Protection (e.g., grazing, forestry, cropland, prime or unique agricultural lands) (Identify any prime or important farm ground or forest lands within one mile of the boundary of the project.) <i>Comments and Source of Information:</i> A letter from the NRCS in response to the request for comments indicates a Federal Farmland Protection Policy (FPPA) impact determination may be necessary for the project. A request for the impact determination will be submitted to the NRCS once the well site and pipeline route are finalized. (Letter from NRCS)
Key <u>B/P</u>	9. Vegetation & Wildlife Species & Habitats, Including Fish (e.g., terrestrial, avian and aquatic life and habitats) <i>Comments and Source of Information:</i> The project is anticipated to benefit vegetation and wildlife species and habitats, particularly fish, by reducing the strain on the limited water supply in the Musselshell River. A 124 permit may be required from the Montana Fish, Wildlife, and Parks (FWP) for the river crossing, but no comment has been received from the agency to date. (2008 PER)
Key <u>B</u>	10. Unique, Endangered, Fragile, or Limited Environmental Resources, Including Endangered Species (e.g., plants, fish or wildlife)

Key Letter: N – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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	<i>Comments and Source of Information:</i> A search of species of concern was conducted through the Natural Heritage Program website. There are seven species of concern that are located within Township 10N, Range 31E, including the Northern Leopard Frog, Lark Bunting, Chestnut-Collared Larkspur, Greater Sage Grouse, Peregrine Falcon, Sage Thrasher, and Brewer's Sparrow. The frogs would be potentially benefited by the proposed project by eliminating the Musselshell River as a source of water supply. This would increase the amount of water passing by Melstone in the river, which would increase the habitation areas of the frogs. The proposed project would not be anticipated to impact the birds, which are primarily of concern for the breeding population. (2008 PER)
Key	11. Unique Natural Features (e.g., geologic features)
N	<i>Comments and Source of Information:</i> Nothing of concern was found by the engineer when the site was visited and no concerns were noted by the FWP or State Historic Society. The State Historic Preservation Office (SHPO) specifically noted that "As long as this project follows the existing right-of-way, we feel that there is a low likelihood cultural properties will be impacted. We, therefore, feel that a recommendation for a cultural resource inventory is unwarranted at this time." (SHPO)
Key	12. Access to, and Quality of, Recreational & Wilderness Activities, Public Lands and Waterways, (including Federally Designated Wild & Scenic Rivers) and Public Open Space
N	<i>Comments and Source of Information:</i> The project will not impact the access or quality of these activities. The new wells will be located on private land and the pipeline will follow County and state rights-of-way, but all roads will remain accessible after completion of the project. (Engineer)
HUMAN POPULATION	
Key	1. Visual Quality – Coherence, Diversity, Compatibility of Use and Scale, Aesthetics
N	<i>Comments and Source of Information:</i> No impacts to visual quality have been noted other than the potential construction of a small wellhouse. (Engineer)
Key	2. Nuisances (e.g., glare, fumes)
N	<i>Comments and Source of Information:</i> No nuisances due to glare, fumes, etc. are anticipated. (Engineer)
Key	3. Noise -- suitable separation between noise sensitive activities (such as residential areas) and major noise sources (aircraft, highways & railroads)
N	<i>Comments and Source of Information:</i> No impacts from noise are anticipated outside of construction. Additionally, the construction is planned to be within existing road right-of-ways in rural areas. (Engineer)
Key	4. Historic Properties, Cultural, and Archaeological Resources

Key Letter: N – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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N		<i>Comments and Source of Information:</i> A response letter was received from the Montana Historical Society that stated, “As long as this project follows the existing right-of-way, we feel that there is a low likelihood cultural properties will be impacted.” (SHPO Letter)
Key	5.	Changes in Demographic (population) Characteristics (e.g., quantity, distribution, density)
B		<i>Comments and Source of Information:</i> The population would be viable once a secured water source is available and the area would be allowed to grow. (Public Hearings)
Key	6.	Environmental Justice – (Does the project avoid placing lower income households in areas where environmental degradation has occurred, such as adjacent to brownfield sites?)
N		<i>Comments and Source of Information:</i> Other than providing reliable water service to them, the project does not involve lower income households. (Engineer)
Key	7.	General Housing Conditions - Quality, Quantity, Affordability
B		<i>Comments and Source of Information:</i> If the Town cannot provide water, the housing costs will drop sharply, and many homes may be left vacant as families relocate to communities with reliable water service. (Engineer)
Key	8.	Displacement or Relocation of Businesses or Residents
N		<i>Comments and Source of Information:</i> No displacements or relocations are anticipated due to the project. (Engineer)
Key	9.	Public Health and Safety
B		<i>Comments and Source of Information:</i> The PER notes numerous violations of Federal Health and Safety Standards (SDWA) and State Standards that the project will rectify. The existing plant is a threat to the public safety but will be taken off-line at the completion of the project. (2002 and 2008 PER’s)
Key	10.	Lead Based Paint and/or Asbestos
N		<i>Comments and Source of Information:</i> No lead based point or asbestos is anticipated to be encountered during construction. (Engineer)
Key	11.	Local Employment & Income Patterns - Quantity and Distribution of Employment, Economic Impact
B		<i>Comments and Source of Information:</i> Without reliable water service, the existing businesses in the community will be forced to close or relocate. (Engineer)
Key	12.	Local & State Tax Base & Revenues

Key Letter: **N** – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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B _____		<i>Comments and Source of Information:</i> Property values will decrease dramatically if the Town cannot provide reliable water service to the community, thereby lowering the local and state tax base. (Engineer)
Key B _____	13.	Educational Facilities - Schools, Colleges, Universities <i>Comments and Source of Information:</i> Loss of water service would necessitate the closure of the Melstone schools. (Engineer)
Key B _____	14.	Commercial and Industrial Facilities - Production & Activity, Growth or Decline <i>Comments and Source of Information:</i> No commercial or industrial facilities are likely to be located in the community unless a reliable water source is secured. (Engineer)
Key N _____	15.	Health Care – Medical Services <i>Comments and Source of Information:</i> There are no medical services in Melstone. (Engineer)
Key N _____	16.	Social Services – Governmental Services (e.g., demand on) <i>Comments and Source of Information:</i> The project is not anticipated to significantly alter the demand on social or governmental services. (Engineer)
Key N _____	17.	Social Structures & Mores (Standards of Social Conduct/Social Conventions) <i>Comments and Source of Information:</i> The project is not anticipated to affect the community's social structure and mores. (Engineer)
Key B _____	18.	Land Use Compatibility (e.g., growth, land use change, development activity, adjacent land uses and potential conflicts) <i>Comments and Source of Information:</i> Securing a reliable water source will make development possible within the Town of Melstone, and development adjacent to the proposed 12 mile long transmission line is also a possibility. (Engineer)
Key B _____	19.	Energy Resources - Consumption and Conservation <i>Comments and Source of Information:</i> The proposed groundwater wells represent a large savings in energy costs compared to the existing treatment plant. (2008 PER)
Key	20.	Solid Waste Management

Key Letter: N – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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B _____		<i>Comments and Source of Information:</i> The existing plant produces a sludge. The proposed solution does not involve any sludge waste. (2008 PER)
Key B _____	21.	Wastewater Treatment - Sewage System <i>Comments and Source of Information:</i> If the Town stays with the existing treatment plant, it may need to begin sending sludge and recycle water to the sanitary sewer lagoons after the DEQ reviews the system as required under the Filter Backwash Recycle Rule. The Town's wastewater lagoons do not have the capacity to accept the sludge or recycle water. (2008 PER)
Key N _____	22.	Storm Water – Surface Drainage <i>Comments and Source of Information:</i> The project will not affect storm water management in the community. (Engineer)
Key B _____	23.	Community Water Supply <i>Comments and Source of Information:</i> The project is centered around addressing serious deficiencies in the Town's community water supply. (2008 PER)
Key N _____	24.	Public Safety – Police <i>Comments and Source of Information:</i> The project will not affect the police force in the community as it is provided by the Musselshell County Sheriff's Office. (Engineer)
Key B _____	25.	Fire Protection – Hazards <i>Comments and Source of Information:</i> Fire flow is enhanced by the Town's ability to meet peak day demand with the source water. (2008 PER)
Key N _____	26.	Emergency Medical Services <i>Comments and Source of Information:</i> The project is not anticipated to affect emergency medical services. (Engineer)
Key B _____	27.	Parks, Playgrounds, & Open Space <i>Comments and Source of Information:</i> A reliable water source would allow irrigation of parks, even during drought years. (Engineer)
Key	28.	Cultural Facilities, Cultural Uniqueness & Diversity

Key Letter: N – No Impact/Not Applicable **B** – Potentially Beneficial **A** – Potentially Adverse
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<u>N</u>		<i>Comments and Source of Information:</i> The project will not affect cultural facilities or cultural uniqueness and diversity.
Key	29.	Transportation Networks and Traffic Flow Conflicts (e.g., rail; auto including local traffic; airport runway clear zones - avoidance of incompatible land use in airport runway clear zones)
<u>N</u>		
		<i>Comments and Source of Information:</i> The project will not have permanent impacts upon the transportation networks or traffic flow. (Engineer)
Key	30.	Consistency with Local Ordinances, Resolutions, or Plans (e.g., conformance with local comprehensive plans, zoning, or capital improvement plans)
<u>B</u>		
		<i>Comments and Source of Information:</i> The project addresses the Number 1 and Number 2 priorities of the citizens listed in the 2002 Needs Assessment Survey along with the Number 1 priority of the Town's Capital Improvements Plan (CIP).
Key	31.	Is There a Regulatory Action on Private Property Rights as a Result of this Project? (consider options that reduce, minimize, or eliminate the regulation of private property rights.)
<u>N</u>		
		<i>Comments and Source of Information:</i> The Town is currently negotiating with the owner of the land where test well 6T was drilled. If an agreement cannot be reached, the Town will pursue alternate well sites instead of regulatory actions on the landowner.

Town of Melstone Water System Evaluation

PER Public Meeting
April 7, 2008

History and Efforts to Date

History

- DEQ strongly questioned package plant treatment plant when first proposed in 1983
 - Fox Hills Aquifer known as potential water source, but apparently eliminated due to concerns over cost of test well and perhaps the pipeline cost. Field study clearly eliminated use of shallow wells.
 - In 1984, the DEQ reluctantly agrees to allow placement of the plant.
 - Plant completed in 1986.
- Pipeline improvements followed in 1988.

History and Efforts to Date

➤ 1988:

- River stopped flowing
- Fox Hills well proposed, but no improvements completed as it was very wet fall

➤ 2001:

- Severe water shortage, river completely stopped flowing
 - No help from District Court
 - DEQ recognized the problem but could not help
 - Survived through diligence of operator and use of seeping water

History and Efforts to Date

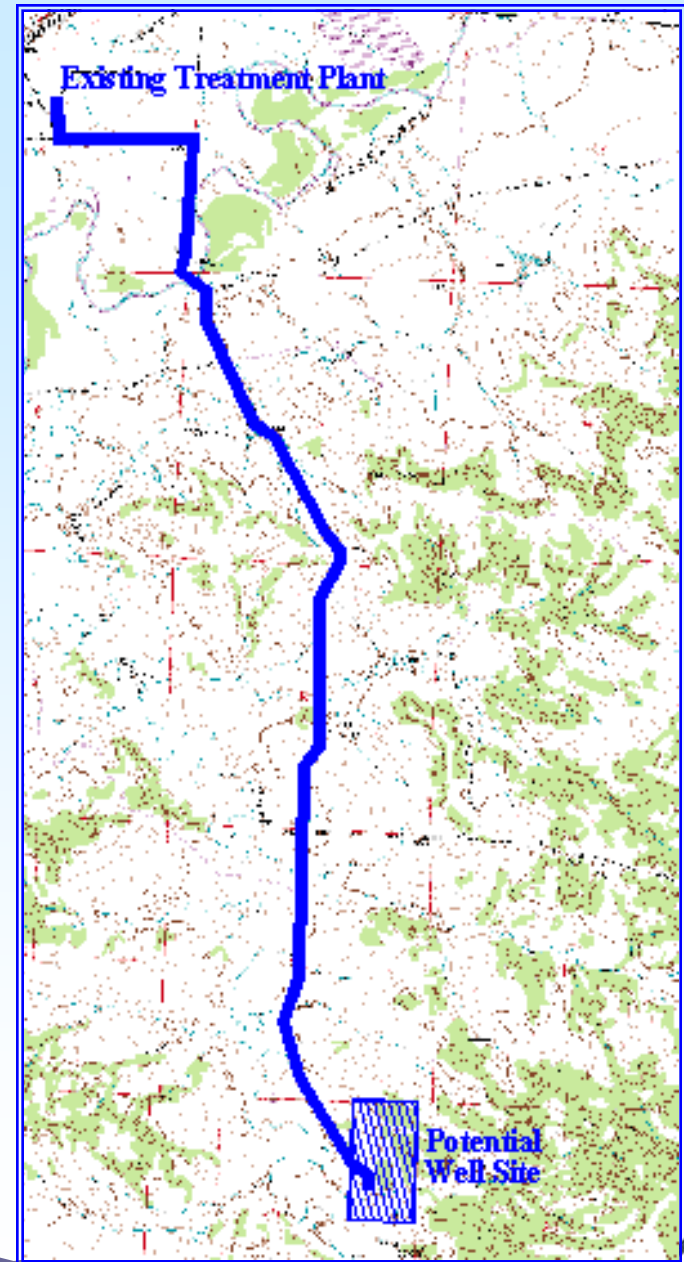
➤ 2002:

- River stopped flowing
- Constructed 1 acre raw water storage pond (borrowed about \$25,000 but later reimbursed)
- Attempted the conversion of an oil well near Town to draw water from the Third Cat Creek Aquifer (low yield, idea abandoned)
- Tested second existing Third Cat Creek Well, approx 3 to 4 miles west of Town (very poor, fluoride exceeded MCL)
- Negotiated use of the Jorgenson well, but after testing, it was eliminated (August)
- Completed Preliminary Engineering Report (PER) to help find long-term solution and help obtain grants (December)

2002 PER Recommendations

Plan A

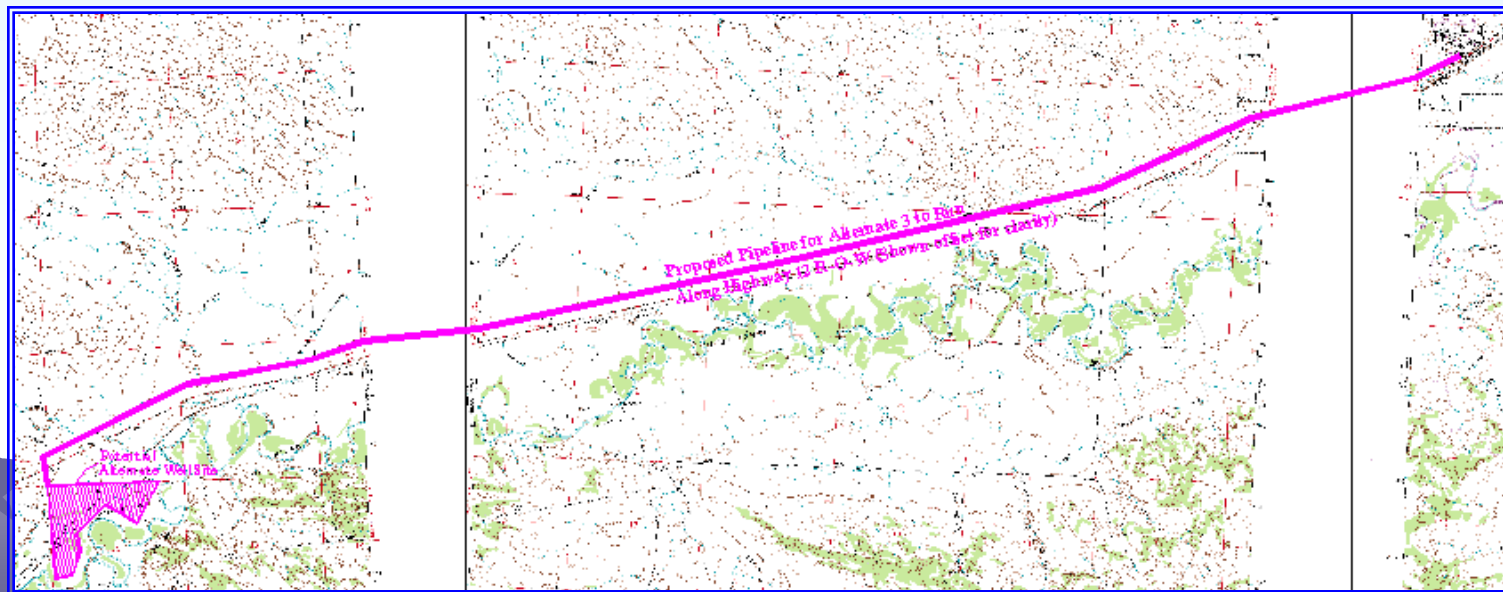
- Fox Hills Well
South of Town
- Recommended
Alternative
- Similar to 1988
proposal



2002 PER Recommendations

Plan B

- Fox Hills Well West of Town
- Recommended Alternative, only if Plan A not feasible



History and Efforts to Date

- 2003:
 - River stopped flowing
 - Construct Fox Hills Well 5 Miles South of Town (Well #1) with help of Bureau of Reclamation
 - <20 gpm yield (anticipated yield 70 gpm per 1988 study)
 - Close to meeting average day demands, but not peak day demands
- 2004:
 - River stopped flowing
 - Obtained additional grant funding through Rural Development (RD) and the Water Resources Development Act (WRDA)
- 2005:
 - Installed meters and constructed 5-mile pipeline to connect well to treatment plant

Efforts to Date

➤ 2005/2006:

- Re-evaluate wellsites with Hydrogeologist & State Fox Hills Well “Expert”
- Construct Well #2
 - Next to Well #1
 - Lance formation
 - <8 gpm
- Construct Test Wells
 - Well #3T – no water
 - Well #4T – no water
 - Well #6T - >80 gpm (10 miles west of Melstone)

Efforts to Date

➤ 2006:

- Begin negotiating agreement with land owner to construct a production well

➤ 2007:

- Begin re-evaluating alternatives, costs, and funding strategies

➤ 2008:

- Develop new PER
- Submit applications to TSEP, DNRC for additional grant funds (?)

Preliminary Engineering Report (PER)

1. Evaluation of Existing System
 - Compile Inventory and Assess Condition
 - Evaluate Performance
 - Identify Deficiencies
2. Alternative Development
 - Determine All Possible Solutions During Alternative Screening
 - Retain Viable Alternatives for Analysis
3. Selection of Preferred Alternative
4. Funding and Implementation Plan

Existing Water System

Water Supply - River



- Prior to 2005, Town's only water supply came from the Musselshell River
- Drought events from 2000-2004 left the Town's intake "High and Dry"
- Water System Capacity Ranked #1 in 2002 Community Priorities

Water Supply – Wells

➤ Well #1

- Yield $\approx$ 15-18 gpm (assume 15 gpm)
- Well pipeline connected Well #1 to existing water system in 2005
- Well can nearly provide current average day demands, but not peak day demands

➤ Well #2

- Yield $\approx$ 5-8 gpm (assume 5 gpm)
- Near existing Well #1, but not yet connected

Water Supply Demands

- Current Demands
 - Average Day = 16.5 gpm
 - Peak Day = 57.6 gpm
- Projected Demands
 - Average Day = 20.9 gpm
 - Peak Day = 73.3 gpm
- Available Demands:
 - Well #1: 15 gpm
 - Well #2: 5 gpm
- Need 2 wells to meet DEQ criteria of providing peak day demand with largest well out of service

Treatment Plant

- Constructed in 1986
- Many of the automated controls no longer function
- Costly and labor intensive to operate
- New surface water treatment rules
 - Additional monitoring
 - Additional treatment



Storage



- Storage provided by single 180,000 gallon tank
- Visual inspection showed no apparent structural weakness or rusting
- Tank needs new coat of paint

Distribution System

- Majority of piping installed in 1988
- All pipes are PVC and in good condition
- Computer modeling of the system shows an exceptional distribution network

Alternative Analysis

Alternative Screening

➤ No Action

- Not feasible
- Considered as part of PER requirements

➤ Microfiltration Treatment Plant

- Feasible
- Slightly less O&M than existing plant

➤ Reverse Osmosis Treatment Plant

- Not feasible
- Very high O&M costs

Alternative Screening

- Slow Sand Filtration
 - Not feasible
 - Poor treatment in outdoor, colder climates
- Upgrade Existing Plant
 - Not feasible
 - Would require new building
 - Very high capital and O&M costs
- Fox Hills Wells 10 miles west of Melstone
 - Feasible
 - High capital costs, but very low O&M costs

Alternative Screening

- Join with Musselshell
 - Not feasible
 - No interest by Musselshell

- Regional System
 - Not feasible
 - Central Montana Rural Water System likely 10+ years away from Melstone

Alternative 1: Microfiltration

➤ Includes:

- Reconstruct raw water storage ponds (include 6 months treated water storage)
- New sedimentation pond
- New evaporation pond for backwash/cleaning water
- New microfiltration systems (2 units)
- New UV disinfection system (2 units)

➤ Costs:

- Capital Cost = \$1,732,710
- Change in O&M Cost = \$41/year
- 20 Year Life Cycle Cost = \$1,733,325

Alternative 1



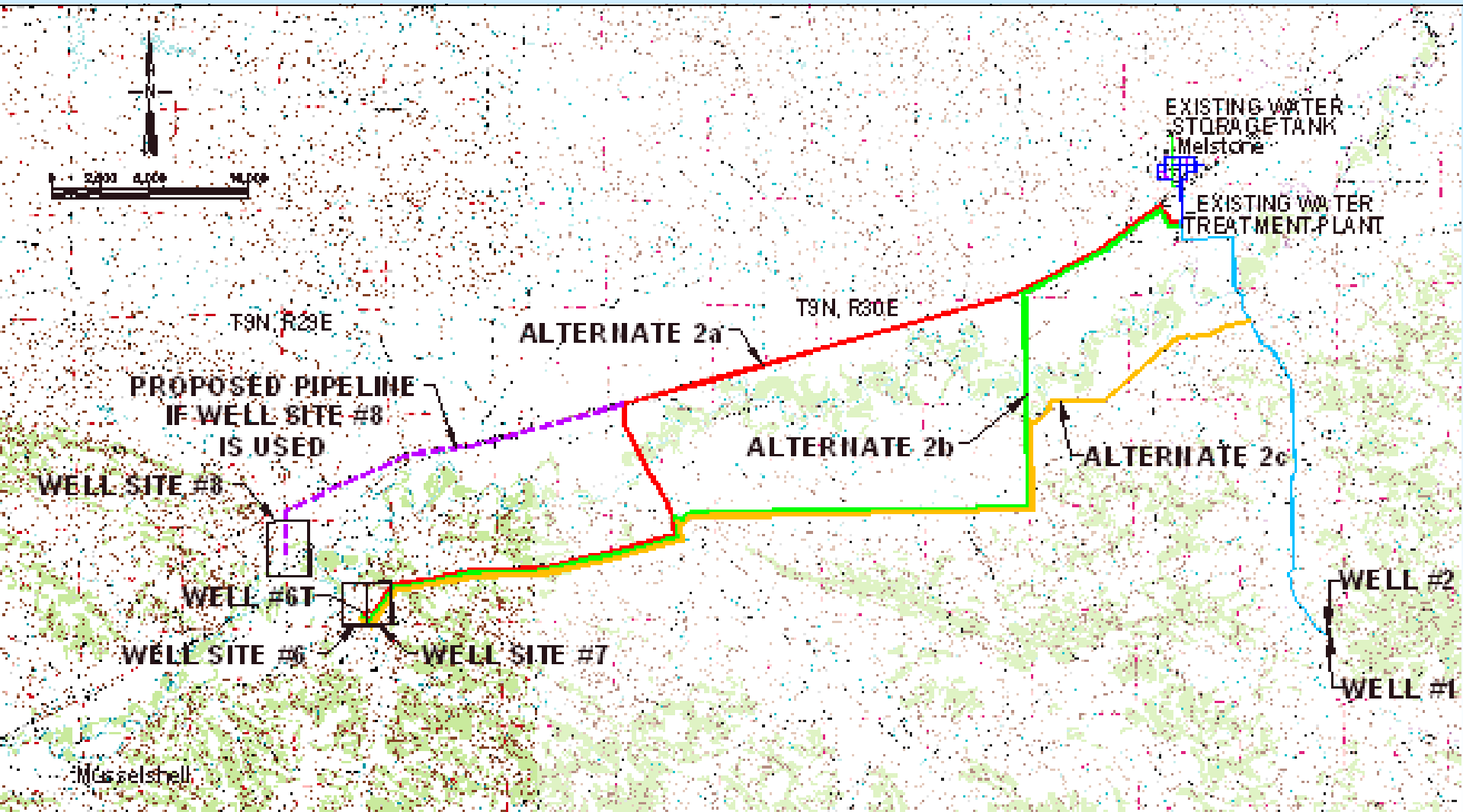
Alternative 2: Fox Hills Wells 10 Miles West of Melstone

➤ Includes:

- Construction of 2 production wells
 - Wellsite #6 (preferred)
 - Wellsite #7 (second choice)
 - Wellsite #8 (last resort)
- New wellhouse/chlorination system
- New telemetry system
- Approximately 12-miles of pipeline (3 route options)
 - Route “a”
 - Route “b”
 - Route “c”

➤ Potential problems obtaining land agreements could prevent this alternative from being feasible

Alternative 2



Alternative 2: Fox Hills Wells 10 Miles West of Melstone

➤ Costs – Alternative 2a:

- Capital Cost = \$2,461,082
- Change in O&M Cost = (\$12,078)/year
- 20 Year Life Cycle Cost = \$2,267,853

➤ Costs – Alternative 2b:

- Capital Cost = \$2,256,396
- Change in O&M Cost = (\$12,078)/year
- 20 Year Life Cycle Cost = \$2,063,168

➤ Costs – Alternative 2c:

- Capital Cost = \$2,540,208
- Change in O&M Cost = (\$12,078)/year
- 20 Year Life Cycle Cost = \$2,346,980

Proposed Improvements

Decision Matrix

Life Cycle Costs for all Alternatives		Matrix Score	High/Low Costs
1	\$1,733,325	7.3	Lowest: \$2,063,168
2a	\$2,267,853	4.7	Highest: \$2,346,980
2b	\$2,063,168	5.6	
2c	\$2,346,980	4.4	

Alternative	Technical Feasibility		Environmental Impacts		Life Cycle Cost		Public Health and Safety		Operation and Maintenance		Public Opinion		TOTAL	RANK
	Weight:	6	Weight:	3	Weight:	10	Weight:	8	Weight:	7	Weight:	4		
	Score	Wtd.	Score	Wtd.	Score	5	Score	Wtd.	Score	Wtd.	Score	Wtd.		
1	6.0	36	5.0	15	7.3	73	6.0	48	6.0	42	2.0	8	222	3
2a	3.0	18	7.0	21	4.7	47	8.0	64	9.0	63	3.0	12	225	2
2b	3.0	18	7.0	21	5.6	56	8.0	64	9.0	63	4.0	16	238	1
2c	1.0	6	5.0	15	4.4	44	8.0	64	9.0	63	2.0	8	200	4

It is important to note that the above scoring and weighting are subjective. Alternatives that score overall within 10 pts of each other may essentially hold the same degree of preference.

Recommended Alternatives

Plan A

- Alternative 2b: Fox Hills Well 10 Miles West of Melstone
 - Wellsite #6 and/or Wellsite #7 with Route “b”
 - Funding recommended based upon this alternative

Plan B

- Alternative 2a: Fox Hills Well 10 Miles West of Melstone
 - Wellsite #8 with Route “a”
 - Require approximately additional mile of pipeline
 - Will need to secure additional funds (likely through RD)

Plan C

- Alternative 1: Microfiltration

Proposed Funding Strategy

- Total Project Costs = \$2,292,396
- Existing Funding:
 - CDBG (Grant): \$377,876
 - RD (Grant/Loan): \$373,864
 - Total: \$751,740
- Proposed New Grant Funding:
 - TSEP (Grant): \$625,000
 - DNRC (Grant): \$100,000
 - Total: \$725,000
- Additional Funds Required:
 - RD Grant/Loan Package: \$835,657



Grant Eligibility

- Treasure State Endowment Program (TSEP)
 - 50-50 match (cannot exceed 50% of project costs)
 - User rate must meet or exceed target rate
- Department of Natural Resources and Conservation Renewable Resource Grant and Loan Program (DNRC-RRGL)
 - Conserve, manage, develop, or protect renewable resources



Target Rates

- Established by Montana Department of Commerce
 - Used to ensure community pays “fair share” of improvements
 - Based on Median Household Income from 2000 Census
 - Rates unique to each community

- Town of Melstone: Water and Wastewater combined target rate = \$49.90 per month

Comparing Rates

- Combined target rate = \$59.90 per month



- Existing Rates (average resident)

- Water = \$57.00/month
- Wastewater = \$12.75/month
- Combined = \$69.75/month

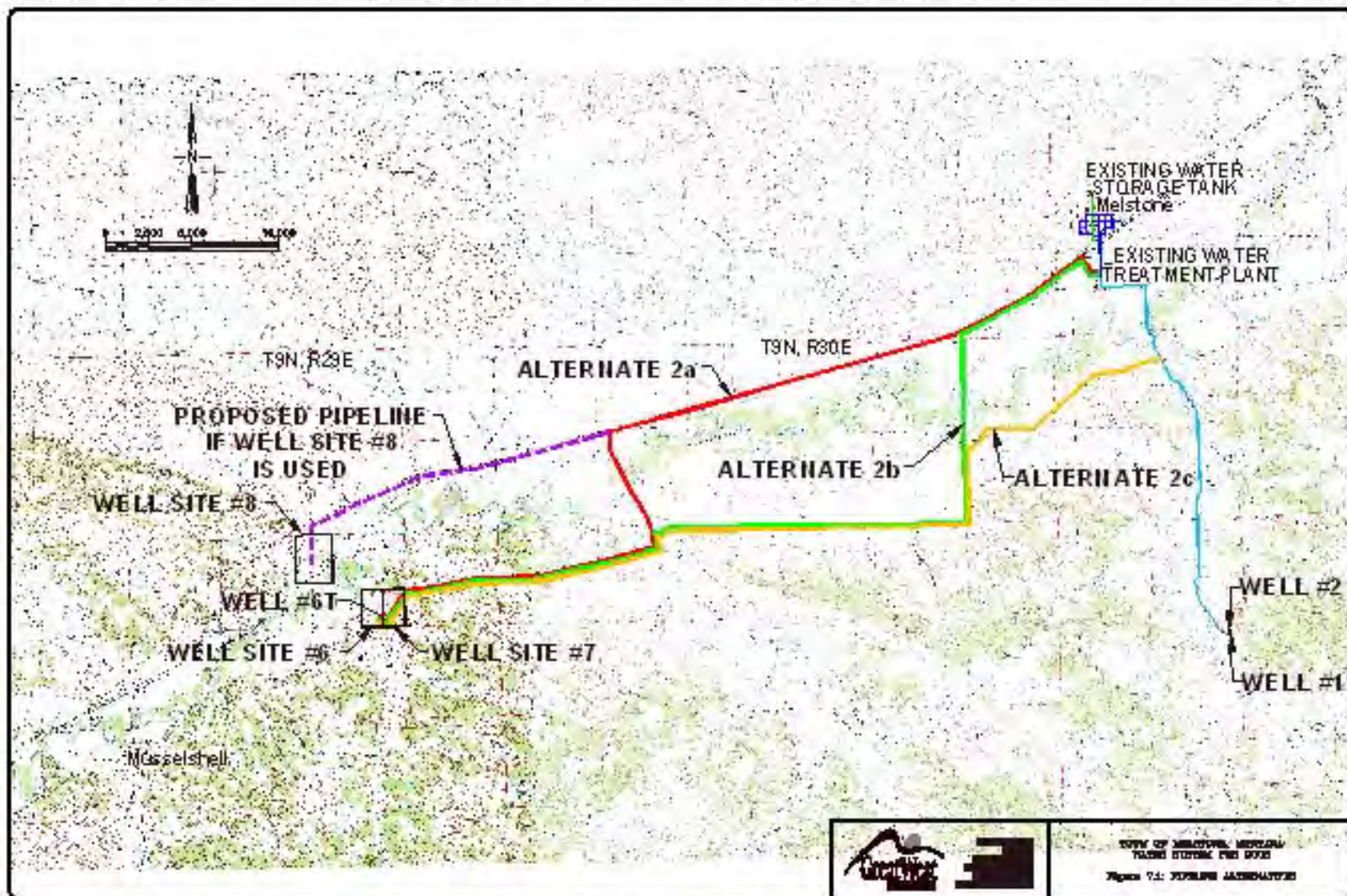


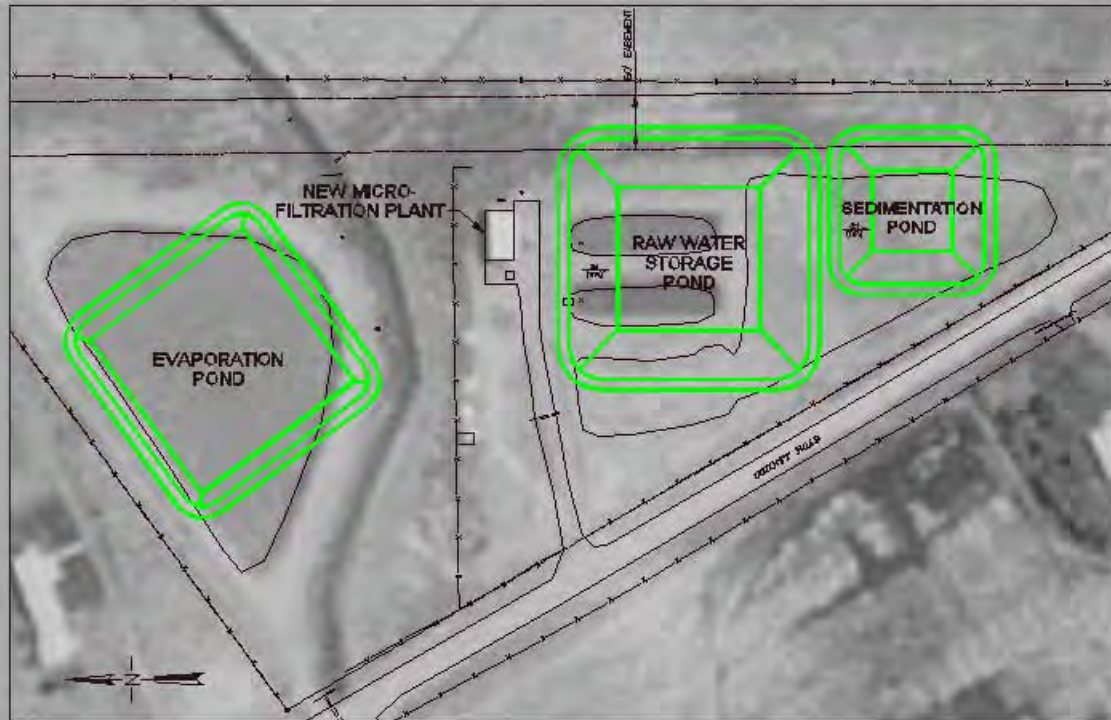
- Currently exceed target rate, so grant eligible

Projected Rates (Cost/User)

Cost and Term	1	2	3	5	6
	TSEP, CDBG, DNRC, and RD +RD Grant/Loan	TSEP, CDBG, DNRC, and RD +RD Loan Only	TSEP, CDBG, and RD + RD Grant/Loan	CDBG, DNRC, and RD +RD Grant/Loan	CDBG and RD +RD Grant/Loan
Total Project Costs	\$2,292,396	\$2,292,396	\$2,292,396	\$2,292,396	\$2,292,396
Town Funds	\$0	\$0	\$0	\$0	\$0
Existing CDBG Grant Funding	\$377,876	\$377,876	\$377,876	\$377,876	\$377,876
Existing RD Grant/Loan Funding	\$373,864	\$373,864	\$373,864	\$373,864	\$373,864
TSEP Grant Funding	\$625,000	\$750,000	\$625,000	\$0	\$0
DNRC Grant Funding	\$100,000	\$100,000	\$0	\$100,000	\$0
New RD Grant	\$550,000	\$0	\$650,000	\$650,000	\$650,000
New RD Base Loan Amount	\$265,657	\$690,657	\$265,657	\$790,657	\$890,657
Required Loan Reserve at 8%	\$21,253	\$55,253	\$21,253	\$63,253	\$71,253
Loan Fees at 0%	\$0	\$0	\$0	\$0	\$0
Total RD Loan Amount	\$286,909	\$745,909	\$286,909	\$853,909	\$961,909
Loan Payment ¹ per year	\$15,592	\$40,535	\$15,592	\$46,404	\$52,273
Required Loan Coverage ² per year	\$1,559	\$4,054	\$1,559	\$4,640	\$5,227
Total Increase for Debt Service per year	\$17,151	\$44,589	\$17,151	\$51,045	\$57,500
Change in O&M Costs (includes short-liv) per year	(\$12,078)	(\$12,078)	(\$12,078)	(\$12,078)	(\$12,078)
Total Net Increase in Income Needed per year	\$5,073	\$32,511	\$5,073	\$38,967	\$45,422
Existing EDU's	72	72	72	72	72
Cost Increase per EDU (water) per year	\$70.45	\$451.54	\$70.45	\$541.20	\$630.87
Cost Increase per EDU (water) per mo.	\$5.87	\$37.63	\$5.87	\$45.10	\$52.57
Existing Water Rate per EDU per mo.	\$57.00	\$57.00	\$57.00	\$57.00	\$57.00
Proposed Water Rate per EDU per mo.	\$62.87	\$94.63	\$62.87	\$102.10	\$109.57
Existing Wastewater Rate per EDU per mo.	\$12.75	\$12.75	\$12.75	\$12.75	\$12.75
Proposed Combined Rate per EDU per mo.	\$75.62	\$107.38	\$75.62	\$114.85	\$122.32
Target Rate (Combined Rate) ³ per mo.	\$59.90	\$59.90	\$59.90	\$59.90	\$59.90
Percentage of Target Rate	126.25%	179.26%	126.25%	191.74%	204.21%

Questions and/or Comments on the Water System PER?





**PERMITTING AND COMPLIANCE DIVISION
COMMUNITY SERVICES BUREAU**

AIRPORT BUSINESS PARK IP-9

Phone: (406) 247-4455
Fax: (406) 247-4456

1371 Rimtop Drive
Billings, MT. 59105-1978

01/4/01

Honorable Charles L. Church, Mayor
Town of Melstone
5th Avenue West
PO Box 237
Melstone, MT 59054

Dear Mayor Church,

On December 18, 2000, with the assistance of Wanda Yocum and Barney Roussan, I conducted a routine sanitary survey inspection of the Town of Melstone's Public Water Supply System, PWSID # MT0000290. Sanitary Surveys are required in the Administrative Rules of Montana (ARM), section 17.38.231 to ensure adequate protection of public health through proper construction and maintenance of Public Water Supplies (PWS). In addition, it allows the PWS system owners/operators to be informed of current regulatory requirements. I would like to thank Wanda and Barney for their assistance and the tour of the entire system.

Melstone receives its water from the Musselshell River; this is the permanent source for the town. The water is then treated at a dual train filtration plant and collected in a clearwell located under the plant. Chlorine is used as a disinfectant, and after the sufficient contact time, it is pumped to the distribution system. One above ground, steel tank totaling 170,000 gallons provides storage/pressure for the town.

The following report contains descriptions of each of the sections of the water system; any recommendations for the system are numbered at the end of the report.

Musselshell River: The Musselshell River is the source of water for the town of Melstone. The water is collected through an intake located on the river's bank just south of the treatment plant. From here, the water is pumped to a holding pond slightly higher in elevation than the plant. This also acts as a settling pond, and allows some of the larger particles to settle from the water before entering the treatment process. A cistern collects the water by gravity, where submersible pumps feed water to the plant. Several screens throughout this process help to keep mussels from being pumped into the plant.

Treatment Plant: The treatment plant is a dual train, multi media filtration plant that utilizes coagulation, sedimentation, and filtration in its process. Water is treated with liquid alum and polymer to help coagulate particles in the raw water. The coagulated water enters a primary, and then a secondary settling area that utilizes settling tubes for a more efficient process. After a detention time in these chambers, the water flows onto the multi media filter beds for the final step of the particle removal process. The filters consist of three layers of media. The first is a layer of anthracite the second is sand, and finally small gravel. After filtration, the water is collected in an under-drain system at the bottom of the filter chambers. From here, the water flows into a clearwell. Chlorine gas is injected/mixed at a specific rate with feed water. This mixture creates a strong concentration of chlorine that disinfects the water in the clearwell. Any organisms left in the water after filtration are inactivated by a pre-determined amount of contact time with the chlorine that's been injected.

Gas Chlorination System: The chlorination system/equipment at the Melstone Plant is not in the best condition but is functional, and reliable for the most part. It consists of a single 150lb-gas chlorine cylinder that utilizes a simple roto-meter type feed control. The feed rate at the time of inspection was approximately 2 to 3lbs/day, and a residual of 1.70ppm was maintained.

Distribution System: The distribution system for Melstone is in good condition with few or no leaks detected throughout the year. There were no cross-connections noted, and pressure throughout the system was adequate. At the time of this inspection, pumpage was between 27,000 and 30,000 gallons per day.

Storage Reservoir: The town of Melstone uses a 170,000-gallon above-ground steel storage tank for a reservoir. This reservoir would supply the town for about 3 days on restricted use should the system have trouble with the water supply. This reservoir is located on the North edge of town and is in good condition.

Recommendations:

- 1) There was no certified operator at this system at the time of inspection, and the DEQ is aware of this situation. Montana law Administrative Rules of Montana, (ARM 37.42.101) requires that persons in responsible charge of the operation and maintenance of community public water supplies become certified (licensed) as a system operator. I have to recommend that Wanda and Barney become certified as soon as possible. Wanda and Barney are both very capable and enthusiastic. I know that Wanda is studying for the exam, and on behalf of the DEQ, we will do all we can to help in preparation for the exam. I also recommend that she/they attend the spring water school in Billings March 21st through the 23rd, 2001.
- 2) The water plant at Melstone is in good condition, but is in need of certain unavoidable repairs. The Foxboro filter controls do not work properly at all, and not only does this cause a possibility of potential filter breakthrough, it causes a large amount of unnecessary work for the operator. This has been an on-going problem at this plant for at least the last year, and is something that needs attention. The turbidimeter on filter #1 has been a problem for a long time as well, and needs to be replaced, or filter #1 turbidity needs to be monitored by the new Hach 1720D turbidimeter on filter #2. This unit can handle multiple filters. This would not only prevent faulty records, but again would save the operator the unnecessary task of taking a grab sample from filter #1 to check its turbidity on the 2100P portable turbidimeter. Montana law Administrative Rules of Montana (ARM 17.38.226) requires that the supplier of water must monitor and record turbidity measurements of representative samples of the system's filtered water and individual filter effluent at least every 4 hours that the system serves water to the public; (every 4 hours of operation).
- 3) Separate from the filtration process but just as important, is the chlorination system. The gas chlorine system at the Melstone plant is also in need of repair. The day of inspection proved that an entire re-vamping of the piping and chlorine room is necessary. On the day of inspection, disinfection was mildly interrupted due to the feed water line being plugged. There was no vacuum being created do to the blockage, and the chlorine gas was not being injected properly. This is the second time that I know of, that an occurrence like this has taken place in Melstone. The tank scale needs to be repaired, and there is a light switch that should be moved to the outside of the chlorine room so the operator does not have to enter the room to turn it on. Although an automatic leak detection system is not required by the DEQ in this situation, I feel it is a valuable implementation that should be considered. Aside from these improvements, I would include a system where two chlorine cylinders and an automatic switchover control unit be used to ensure that disinfection is not interrupted should one chlorine cylinder or feeder fail for one reason or another. It has been brought to my attention that all this could be very costly, and a sodium or calcium hypochlorite system may be desirable in this situation. Sodium/calcium hypochlorite is less dangerous to have around, and is also much less corrosive to plant equipment should a leak occur. So except for the added periodic mixing of the chlorine solution, less maintenance would be required for its operation. This decision is entirely up to the Melstone PWS, and the DEQ is not partial one way or the other. A hypochlorite system would work just fine at Melstone, and switching may be a more cost efficient approach than to repair the deficiencies necessary for the gas system to function properly.

- 4) The access hatch on the reservoir was not sealed properly. The under-side of the hatch should have some sort of seal in place to prevent insects and dust from entering the tank. This is a simple application of weather stripping that can be obtained at most hardware stores. There is a pressure gauge located at the water plant that is used to determine the depth of water in the reservoir. The inspection concluded that the gauge is currently inaccurate, and is not working properly. A new pressure gauge may be required, or some sort of adjustment should be made. The paint on the exterior of the reservoir is fading and peeling, and may need to be re-painted in the near future. Since I do not know the last time it was inspected, I would recommend an inspection of the interior and exterior of the reservoir as well. It is also important to note that the reservoir must be disinfected after any repairs are made. It is important to keep in mind that if any repairs are made to the interior of the reservoir, the preparation of the surface i.e.; sandblasting, sanding etc. must comply with AWWA standards. Also any final coatings, or liners in contact with potable water, (inside of reservoir), must comply with ANSI/NSF Standard 61. Contractors for these repairs should be familiar with these standards.

Aside from the deficiencies noted above, the water system at Melstone appears to be in good condition.

If you have any questions, comments, or corrections regarding this report, please feel free to call me at 247-4455.

Sincerely,

Matt Usuriello
Water Quality Specialist
Department of Environmental Quality
Billings Regional Office

Cc: Mike Rinaldi County Sanitarian
PWS file
Sanitary Survey File
Wanda Yocum (Operator)

6/27/03

Honorable Tim DeJaegher, Mayor
Town of Melstone
PO Box 237
Melstone, MT 59054

Dear Mayor DeJaegher,

On May 16, 2003, with the assistance of Wanda Yocum, I conducted a routine sanitary survey inspection of the Town of Melstone's Public Water Supply System, PWSID # MT0000290. Sanitary Surveys are required in the Administrative Rules of Montana (ARM), section 17.38.231 to ensure adequate protection of public health through proper construction and maintenance of Public Water Supplies (PWS). In addition, it allows the PWS system owners/operators to be informed of current regulatory requirements. I would like to thank Wanda for her time, assistance and the tour of the entire system.

Melstone receives its water from the Musselshell River; this is the permanent source for the town. The water is then treated at a dual train filtration plant and collected in a clearwell located under the plant. Chlorine is used as a disinfectant, and after the sufficient contact time, it is pumped to the distribution system. One above ground, steel tank totaling 170,000 gallons provides storage/pressure for the town.

The following report contains descriptions of each of the sections of the water system; any recommendations for the system are numbered at the end of the report.

Musselshell River: The Musselshell River is the source of water for the town of Melstone. The water is collected through an intake located on the river's bank just south of the treatment plant. From here, the water is pumped to a holding pond slightly higher in elevation than the plant. This also acts as a settling pond, and allows some of the larger particles to settle from the water before entering the treatment process. A cistern collects the water by gravity, where submersible pumps feed water to the plant. Several screens throughout this process help to keep mussels from being pumped into the plant.

Treatment Plant: The treatment plant is a dual train, multi media filtration plant that utilizes coagulation, flocculation, sedimentation, and filtration in its process. Water is treated with liquid alum and polymer to help coagulate particles in the raw water. The coagulated water enters a primary, and then a secondary settling area that utilizes settling tubes for a more efficient settling process. After a detention time in these chambers, the water flows onto the multi media filter beds for the final step of the particle removal process. The filters consist of three layers of media. The first is a layer of anthracite the second is sand, and finally small gravel. After filtration, the water is collected in an under-drain system at the bottom of the filter chambers. From here, the water flows into a clearwell. Chlorine gas is injected/mixed at a specific rate with feed water. This mixture creates a strong concentration of chlorine that disinfects the water in the clearwell. Any organisms left in the water after filtration are inactivated by a pre-determined amount of contact time with the chlorine that's been injected.

5/8/2012

Gas Chlorination System: The chlorination system/equipment at the Melstone Plant is not in the best condition but is functional, and reliable for the most part. It consists of a single 150lb-gas chlorine cylinder that utilizes a simple roto-meter type feed control. The feed rate at the time of inspection was approximately 2 to 3lbs/day, and a residual of 1.70ppm was maintained.

Distribution System: The distribution system for Melstone is in good condition with few or no leaks detected throughout the year. There were no cross-connections noted, and pressure throughout the system was adequate. At the time of this inspection, pumpage was between 27,000 and 30,000 gallons per day.

Storage Reservoir: The town of Melstone uses a 170,000-gallon above-ground steel storage tank for a reservoir. This reservoir would supply the town for about 3 days on restricted use should the system have trouble with the water supply. This reservoir is located on the North edge of town and is in good condition.

Recommendations:

- 1) The Musselshell River is becoming a very unreliable source for the town of Melstone in the last several years. The town has done a lot of work trying to find money for a new source. As of now, a new well site has been chosen and work has begun. In the interim, I recommend that the system continues to work closely with engineers and specialists at the department who may be able to help with certain aspects of the construction as well as answer any compliance and regulatory questions that may arise.
- 2) Some of the deficiencies noted in the first inspection report from January 4, 2001 are still problems at this system however Wanda has done an excellent job of keeping the plant operable and the water in compliance with state and federal regulations. With the new well in place, the treatment plant will not be the constant maintenance problem that it has been in the past. All of the people at Melstone who were involved in deciding what to do with the water situation are to be commended for their excellent work and dedication to service of the public.

Aside from the situations noted above, the water system at Melstone appears to be in good condition.

If you have any questions, comments, or corrections regarding this report, please feel free to call me at 247-4455.

Sincerely,

Matt Usuriello
Water Quality Specialist
Department of Environmental Quality
Billings Regional Office

Cc: Musselshell County Sanitarian
PWS file
Sanitary Survey File
Wanda Yocum (Operator)

12/19/06

Honorable Tim DeJaegher, Mayor
Town of Melstone
PO Box 237
Melstone, MT 59054

Dear Mayor DeJaegher,

On November 15, 2006, with the assistance of Wanda Yocum, I conducted a routine sanitary survey inspection of the Town of Melstone's Public Water Supply System, PWSID # MT0000290. Sanitary Surveys are required in the Administrative Rules of Montana (ARM), section 17.38.231 to ensure adequate protection of public health through proper construction and maintenance of Public Water Supplies (PWS). In addition, it allows the PWS system owners/operators to be informed of current regulatory requirements. I would like to thank Wanda for her time, assistance and the tour of the entire system.

Melstone receives its water from the Musselshell River and from Well 1; these are considered permanent sources for the town. The surface water from the Musselshell River is treated at a dual train filtration plant and collected in a clearwell located under the plant. Water from the new well source is pumped directly to the clearwell. Chlorine is used as a disinfectant and is applied to the stored water in the clearwell, and after sufficient contact time, it is pumped to the distribution system. One above ground, steel tank totaling 170,000 gallons provides storage/pressure for the town.

The following report contains descriptions of each of the sections of the water system; any recommendations for the system are numbered at the end of the report.

Musselshell River: The Musselshell River has been the source of water for the town of Melstone for some time but alternate well sources are being implemented to potentially phase out the surface water treatment plant. The Musselshell River water is collected through an intake located on the river's bank just south of the treatment plant. From here, the water is pumped to a holding pond slightly higher in elevation than the plant. This also acts as a settling pond, and allows some of the larger particles to settle from the water before entering the treatment process. There was the addition of another raw water reservoir/holding pond just to the south of the plant a few years ago to help sustain the system's needs during the dry months of the year. Water from this holding pond can be pumped when needed to the upper holding pond. A cistern collects the water by gravity from the upper holding pond, and submersible pumps from the cistern feed water to the plant. Several screens throughout this process help to keep mussels from being pumped into the plant.

Surface Water Treatment Plant: The treatment plant is a dual train, multi media filtration plant that utilizes coagulation, flocculation, sedimentation, and filtration in its process. Water is treated with liquid alum and polymer to help coagulate particles in the raw water. The coagulated water enters a primary, and then a secondary settling area that utilizes settling tubes to help optimize the settling process. After a detention time in these chambers, the water flows onto the multi media filter beds for the final step of the treatment process. The filters consist of three layers of media. The first is a layer of anthracite the second is sand, and finally small gravel. After filtration, the water is collected in an under-drain system at the bottom of the filter chambers. From here, the water flows into a clearwell. Sodium hypochlorite is then injected for disinfection purposes.

Well 1: According to the well log information, the well was drilled on July 11, 2003 to a depth of 825-ft. The casing is 10-in diameter steel from 2-ft above grade to 25-ft below grade, then 6-in casing to 674-ft below grade. The well was grouted with cement from grade to 680-ft and a 0.20-in stainless steel screen was used for the intake from intervals at 695-ft to 735-ft and also 765-ft to 780-ft. The static level in the well at the time of completion was 112-ft and a pump test at 18-gpm caused a drawdown of 359-ft after 12-hrs of pumping. The well recovery time was also 12-hrs.

Hypochlorination System: The new sodium hypochlorite injection system has improved the treatment plant's overall performance. The old gas system was in poor condition and very difficult to maintain. The new system is in very good condition and is well maintained. Chlorine residual at the plant was 1.7mg/L.

Distribution System: The distribution system for Melstone is in good condition with few or no leaks detected throughout the year. There were no cross-connections noted, and pressure throughout the system was adequate. At the time of this inspection, pumpage was between 18,000 and 22,000 gallons per day.

Storage Reservoir: The town of Melstone uses a 170,000-gallon above-ground steel storage tank for a reservoir. This reservoir would supply the town for about 3 days under restricted use conditions, should the system have trouble with the water supplies. This reservoir is located on the North edge of town and although is in need of paint, appears to be in good structural condition.

Recommendations/Minor Deficiencies:

- 1) Since the last inspection, several wells have been constructed. Some as test wells and others as PWS wells. At the time of inspection, only one well was being used as an active source for the town, Well 1. There is another well called Well 2 in the same area as Well 1 but was not active. Please remember to notify the department when Well 2 is activated so that records can be kept current.
- 2) The storage reservoir is showing signs of age and although it appears to be structurally sound, the paint is badly fading on the roof and a layer of surface rust is apparent. I strongly recommend that painting of the tank be included in any future improvements to the water system at Melstone.
- 3) It has been brought to my attention that the submittals of several of the required, monthly surface water monitoring reports have been delinquent. Please be informed that these monthly reports must be submitted to the state no later than the 10th of the following month and that violations and enforcement action may be taken by the department if these monitoring reports are not received by the due date.

Significant Deficiencies:

Important note: Significant deficiencies can be defined as a defective water supply component(s) having or likely to have an adverse influence on public health. Significant deficiencies require immediate corrective action in efforts to protect consumers. Documentation of the corrective action is required i.e.; photos of the correction and a letter signed by the operator in responsible charge. Future monitoring waivers will not be issued and current monitoring waivers can be revoked if significant deficiencies are not corrected and documentation is not received by the inspector.

No significant deficiencies noted during inspection.

Aside from the recommendations/minor deficiencies noted above, the water system at Melstone appears to be in good condition.

If you have any questions, comments, or corrections regarding this report, please feel free to call me at 247-4455.

Sincerely,

Matt Usuriello
Water Quality Specialist
Department of Environmental Quality
Billings Regional Office

Cc: Musselshell County Sanitarian
Billings PWS file
Lyla Bowen/Helena Sanitary Survey File
Wanda Yocum, system Operator

SANITARY SURVEY RE-INSPECTION SHORT FORM

DATE OF SURVEY <i>11/15/06</i>		COUNTY <i>Musselshell</i>	SURVEYOR NAME <i>Matthew Usuriello</i>	
PWSID <i>MT0000290</i>		SYSTEM NAME <i>Melstone, Town of</i>		☐ Seasonal operation dates: ____ to ____ ☒ Year round operation
(SYSTEM REPRESENTATIVE) <i>Wanda Yocum</i>		(OTHER REPRESENTATIVE) <i>Tim DaJaegher</i>		
SYSTEM ADDRESS Addressee <u><i>Town of Melstone</i></u> Primary Address Street <u><i>500 Fergus, PO Box 237</i></u> City <u><i>Melstone</i></u> State <u><i>MT</i></u> Zip <u><i>59054</i></u> System Phone <u><i>(406) 358-2301</i></u> Fax (____) _____		SYSTEM OWNER Addressee <u><i>Town of Melstone</i></u> Owners Address Street _____ City _____ State _____ Zip _____ Owner Phone (____) _____ Fax (____) _____		
OPERATOR OF SYSTEM Name <u><i>Wanda Yocum</i></u> Certified Operator ☐ No ☒ Yes If, yes Certification # <u><i>5892</i></u> Phone <u><i>(406) 358-2301</i></u> Cell (____) _____		SYSTEM CLASS ☒ C = Community ☐ NC = Transient Non-Community ☐ NTNC = Non-Transient Non-Community		
Total Service Connections: Residential / Non-Transient: <u><i>78</i></u> Transient: <u><i>NA</i></u> Total Active Connections: Residential / Non-Transient: <u><i>78</i></u> Transient: <u><i>NA</i></u> Service Connections Metered? ☒ Yes ☐ No % <u><i>100</i></u> Metered		Resident Population <u><i>170</i></u> Number of permanent residents utilizing PWS daily Non-Transient Population <u><i>NA</i></u> Maximum number of non-transient persons utilizing PWS daily Transient Population <u><i>NA</i></u> Maximum number of transient persons served by PWS daily		

WATER SYSTEM FACILITIES SUMMARY (WSF)									
---------------------------------------	--	--	--	--	--	--	--	--	--

Is current facility list accurate? ☐ YES ☒ NO

If "NO", list facility changes below.

Added (A) or Removed (R)		WSF ID	Facility Name	Water Type Code	Purchased		Seller PWSID	Activity Status
Add	CW001		Clearwell		☐ Yes	☐ No		
Add	RS001		Raw Water Reservoir		☐ Yes	☐ No		Active
					☐ Yes	☐ No		Active
					☐ Yes	☐ No		
					☐ Yes	☐ No		
					☐ Yes	☐ No		

Description of Water System Facility flow: Intake Musselshell River, (IN002) to Raw Water Reservoir, (RS001) & Well 1, (WL002) to Treatment Plant, (TP002) to Clearwell, (CW001) to Distribution System, (DS001) to Storage, (ST001) and back to Distribution, (DS001).

(Facility flow **must** be completed with every inspection.)

Example: Well 1(WL002) to treatment plant (TP001) to storage tank (ST001) to distribution (DS001).

FACILITY LATITUDE / LONGITUDE

List system latitude/longitude for sources, treatment plants and storage facilities that are incorrect or not currently listed.

<u>WSF ID</u>	<u>FACILITY NAME</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
IN002	Intake Musselshell River	46°35' 3.551"	107°52' 13.373"
ST001	Storage Facility, 170,000-gallon	46°36' 13.106"	107°52' 15.03"
TP002	TP for Musselshell River	46°35' 28.766"	107°52' 10.523"
RS001	Raw Water Reservoir	46°35' 31.19"	107°52' 12.163"
WL002	Well 1	46°32' 1.709"	107°50' 29.458"
		0 ' "	0 ' "
		0 ' "	0 ' "

WATER TREATMENT FACILITIES

Is current treatment facility list accurate? ☒ YES ☐ NO

If "NO", list treatment facility changes below.

WSF ID	Treatment Plant Name	Added (A) or Removed (R)	Treatment Objective and Code
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Treatment Description / Comments: Dual train, multi media surface water filtration plant, utilizing coagulation, flocculation, sedimentation, filtration and disinfection.

PRESSURE CONTROL ASSEMBLY

CAPTIVE AIR TANK(S)

WSF ID _____ Location, Description _____

Pump run time _____

Time of Day _____

Cut-In _____ psi Cut-Out _____ psi

Describe pressure control assembly changes and / or concerns: _____

PRESSURE TANK(S)

WSF ID _____ Location, Description _____

Pump recharge rate _____

Time of day _____

Cut-In _____ psi Cut-Out _____ psi

Describe pressure control assembly changes and / or concerns: _____

STORAGE

WSF ID ST001 Location, Description Approximately 1/2-mile North of town on a hillside.

Date of last inspection and / or cleaning UNK

Has condition of the storage facility changed? ☐ YES ☒ NO

Describe storage facility changes and / or concerns: Storage reservoir appears to be in good condition but is badly in need of paint. The exterior is rusty, (see photos) but all screens and seals are in place.

DISTRIBUTION

WSF ID DS001

Has condition of distribution changed? ☐ YES ☒ NO

Describe distribution changes and / or concerns: No changes or concerns at this time. System has been working on completing the installation of new meters.

SAFETY

Did system correct previous safety concerns? ☐ YES ☐ NO ☒ NA

Describe all safety concerns (new and previous): No concerns at this time.

MONITORING / MANAGEMENT

Did system correct previous monitoring / management concerns?

☒ YES ☐ NO ☐ NA

Describe all monitoring and / or management concerns (new and previous): Apparently the system has missed some chlorine residual samples.

Comments: _____

SDWIS State data sheets must be stapled to the back of this report if the short form is used.

REPORT SUMMARY

The State, or an authorized agent, must conduct sanitary surveys for all public water supply systems in Montana. DEQ believes that periodic sanitary surveys, along with appropriate corrective actions, are indispensable for assuring the long-term quality and safety of drinking water. When properly conducted, sanitary surveys can provide important information on a water system's design and operations and can identify minor and significant deficiencies for correction before they become major problems.

Minor deficiencies do not pose serious health threats. However, corrective action of minor deficiencies can be critical in the long-term operation and safety of a public water system. Minor deficiencies are generally described as suggested or recommended corrections in the letter to system owner(s).

Significant deficiencies can be defined as a defective water supply component(s) having or likely to have an adverse influence on public health. Significant deficiencies require immediate corrective action in efforts to protect consumers.

EPA and ASDWA guidance identifies eight broad components that should be covered in a sanitary survey. Using these eight broad components as a guide, minor and significant deficiencies should be described in the letter to system owner(s).

- | | |
|---------------------------|--|
| 1) Source | 5) Pumps, pump facilities, and controls |
| 2) Treatment | 6) Monitoring and reporting, and data verification |
| 3) Distribution system | 7) System management and operation |
| 4) Finished water storage | 8) Operator compliance with State requirements |

With consideration that significant deficiencies may influence regulatory decisions and monitoring requirements, please list all significant deficiencies observed and corrective action(s) taken below.

Comments: **No significant deficiencies noted at time of inspection.**

00060, Discharge, cubic feet per second,									
YEAR	Monthly mean in cfs (Calculation Period: 1928-10-01 -> 2007-09-30)								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1928									
1929	100	70	281	320.1	296.2	323.4	27	1.19	0.073
1930			245.2	274.9	256.8	1.45	0	114	6.25
1931			20	10.6	0.361	0.493	0	0	0
1932	0	0.041	12.7	18.1	42.9	500.6	35.7	17.3	4.16
1945								65	13.3
1946	69.6	80.9	157.7	183.2	98.6	228.2	190.5	21.4	53
1947	104.7	125.7	542.6	388.5	713	563.4	109.4	89.3	36.4
1948	85.8	92.8	183.2	261.6	643.7	1,991	992.4	174.2	77.7
1949	46.3	43.5	663.9	701.6	665.9	425	90.3	43	43.3
1950	47.1	100	240.5	272.8	702.9	1,066	336.2	155.2	111.7
1951	131.9	146.4	498.7	371.6	495.1	446.3	116	204.2	231.5
1952	97.1	122.8	232.4	643.5	1,066	414.3	227.4	114.3	63.1
1953	60.2	49.6	77	34.1	29.6	787.8	80.2	91.1	50.8
1954	24.9	98.8	56.2	44.5	90	44.2	81.4	143.7	29.5
1955	11.8	14.5	32.8	159.8	74.3	100.8	96	50.7	31.9
1956	37.7	27.5	295.7	134.5	470.9	406.2	97.1	110.5	49
1957	19.8	27.1	63.7	38.9	308.8	1,039	326	82.3	180.4
1958	90.6	91.1	123.9	109.8	159.9	183.7	152.4	95.1	109
1959	35.3	50.5	748.9	88	106.1	525.5	168.6	135	99.3
1960	38.8	74.2	155.3	115.4	148.7	118.2	138.2	110.2	45.8
1961	22.1	28.5	18.8	41	39.8	90.8	59.2	25.2	5.9
1962	8.58	46.4	107.5	35.6	230.8	617.7	175.3	81.7	86.7
1963	19.3	132.6	63.7	39.1	129.2	535.5	169.8	144.7	58.9
1964	26.7	29.4	35.3	40	96.5	973.5	301.6	211.4	116.4
1965	138.8	219.8	134.5	315.1	325.9	688.5	349.1	190.7	335.6
1966	109.7	99.6	285.8	260.3	309.8	164.6	191.3	151.9	111
1967	53.4	54.1	106.5	91.1	385.7	4,223	821	263.7	183.4
1968	97.5	223.3	303.1	286	370.9	974	321.4	266.8	177
1969	102.6	130.4	600.9	593.7	219.6	368.4	243	154.8	150.1
1970	43.5	74.6	144.8	155.1	1,138	1,038	248.6	190.5	151.3
1971	53.7	459.5	183.6	296.5	404.6	288.5	213.7	144.3	199.4
1972	54.4	225.6	500	122.4	328.1	272.5	187.2	235.3	168.9
1973	35	56.9	104.1	74.1	179.6	114.4	116.2	66.6	61.9
1974	116.6	96.8	87.5	73.5	142.9	429.6	156.9	251.4	148.1
1975	48.3	63.7	205.8	859.3	1,481	2,299	1,376	447.8	277
1976	222.4	246.2	268.7	273	1,670	716.1	296	234.3	210.5
1977	117.9	159.3	117.8	84.3	148.5	101.7	49.9	81.3	60.5
1978	62.6	69.7	1,256	554.2	1,143	955.8	660.5	235.8	252.1
1979	119.6	147.1	1,356	784.9	824.4	1,038	321.9	272.8	161.2
1982									
1983	171.8	206.3	150.1	126.8	296.5	206.3	177.6	189.5	148.8
1984				111.3	155.1	258	126.9	147.9	177.5
1985				65.4	91.9	69.5	25.3	33.3	19.8
1986				67	112.1	224	159.4	121.2	155.7
1987				38.9	83.8	73.9	176.6	115.1	55.7
1988				30.7	64.9	84.1	18	26.1	3.78
1989				83	115.9	56.6	75	17	48.2
1990				29.1	72	110.5	135.4	235.4	44.8

1991				72	817.4	1,108	275.6	195.8	131.3
1992				34	94.5	231.4	82.5	87.2	47.9
1993				55.6	109.1	215.8	637.2	533.7	477.5
1994				188.7	421.6	147.9	196.3	105.8	100.9
1995				60	427.9	1,058	360.9	138.9	191.5
1996				466.7	611.6	752.9	160.1	137.2	124
1997				292.3	838.5	3,161	1,206	370.6	268.4
1998				157.4	123.1	388	242.1	196.1	130.3
1999				56.7	114.4	171.5	109.8	151.7	105.5
2000				13.2	97.6	85.8	80.1	9.78	3.22
2001				1.22	75.6	25.2	23.4	0.435	0
2002				4.28	6.17	75.7	8.67	0.899	0
2003				15.3	54.7	124.9	82.9	11.2	2.95
2004				1.05	63.2	37	27.6	4.12	1.75
2005				11.3	217.9	332.1	194.1	86.9	45.4
2006				106	95.3	158.9	106.3	71.1	40.4
2007				30.5	132.2	174.3	132	43.8	21
Mean of monthly Discharge	71	108	273	179	337	546	228	133	102

** No Incomplete Data is used for Statistical Calculation

30)

Oct	Nov	Dec
153.1	183	140
0.481	10	
9.16	30	
0	0	0
19.3	53.7	43.6
61.2	47.8	163.1
42.7	63.1	112.1
62.6	101.5	77.9
33.2	40.6	47.4
79.2	89.5	228.7
193.9	184	117.7
39.1	42.8	51.2
12.1	28.9	22.3
25.7	31.1	18.2
12.5	15.5	38.3
11	46.5	32.9
113.6	158.3	100.8
45.5	63.7	40.4
59.5	50.1	55
23.8	28.7	25.8
8.53	16	12.4
62.2	75.4	58.2
48	45.2	25.6
46.2	43.3	32.6
229.4	126.2	133.1
59.4	38.1	52.7
124	110.3	67.4
96.7	140.1	111.7
107.1	72.9	65.8
82.4	65.8	66.4
95.2	83.1	50.5
82.3	64.6	36.4
45.5	58.6	51
77.6	90.7	60.5
259.9	236.4	268.5
100.9	140.6	154.7
35.6	38	53.9
183.1	170.2	148.9
176.8	98.9	101.1
99.3		
57.2		
37		
98.8		
65.3		
4.05		
45.7		
29.9		

63.5		
50.3		
328.1		
99.4		
162.7		
70.4		
163.3		
93		
58		
6.85		
0		
11.3		
2.89		
27.6		
99.7		
74	76	77

```
# ----- WARNING -----
# The data you have obtained from this automated U.S. Geological Survey database
# have not received Director's approval and as such are provisional and subject to
# revision. The data are released on the condition that neither the USGS nor the
# United States Government may be held liable for any damages resulting from its use.
# Additional info: http://waterdata.usgs.gov/nwis/help/?provisional
#
# File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
# Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info
#
# Contact: gs-w_support_nwisweb@usgs.gov
# retrieved: 2008-02-01 11:06:04 EST
#
# Data for the following site(s) are contained in this file
# USGS 06130500 Musselshell River at Mosby MT
# -----
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#
# Data provided for site 06130500
# DD parameter statistic Description
# 02 00060 00003 Discharge, cubic feet per second (Mean)
# 07 00065 00003 Gage height, feet (Mean)
# 18 00010 00001 Temperature, water, degrees Celsius (Maximum)
# 18 00010 00002 Temperature, water, degrees Celsius (Minimum)
# 18 00010 00003 Temperature, water, degrees Celsius (Mean)
#
# Data-value qualification codes included in this output:
# Ice Ice affected
# A Approved for publication -- Processing and review completed.
# P Provisional data subject to revision.
# e Value has been estimated.
#
agency_cd site_no datetime 02_00060_00003 02_00060_00003_cd 07_00065_00003
07_00065_00003_cd 18_00010_00001 18_00010_00001_cd 18_00010_00002 18_00010_00002_cd
18_00010_00003 18_00010_00003_cd
5s 15s 16d 14n 10s 14n 10s 14n 10s 14n 10s 14n 10s
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USGS 06130500 1980-01-02 125 A
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USGS 06130500 1980-01-04 120 A
USGS 06130500 1980-01-05 115 A
USGS 06130500 1980-01-06 96 A
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USGS 06130500 1980-01-09 64 A
USGS 06130500 1980-01-10 64 A
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USGS 06130500 1980-01-17 120 A
USGS 06130500 1980-01-18 120 A
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USGS	06130500	1980-01-30	70	A
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USGS	06130500	1980-02-02	150	A
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USGS	06130500	1980-02-17	120	A
USGS	06130500	1980-02-18	125	A
USGS	06130500	1980-02-19	145	A
USGS	06130500	1980-02-20	140	A
USGS	06130500	1980-02-21	130	A
USGS	06130500	1980-02-22	130	A
USGS	06130500	1980-02-23	145	A
USGS	06130500	1980-02-24	140	A
USGS	06130500	1980-02-25	190	A
USGS	06130500	1980-02-26	250	A
USGS	06130500	1980-02-27	340	A
USGS	06130500	1980-02-28	370	A
USGS	06130500	1980-02-29	400	A
USGS	06130500	1980-03-01	370	A
USGS	06130500	1980-03-02	340	A
USGS	06130500	1980-03-03	300	A
USGS	06130500	1980-03-04	270	A
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USGS	06130500	1980-04-05	269	A
USGS	06130500	1980-04-06	276	A
USGS	06130500	1980-04-07	276	A
USGS	06130500	1980-04-08	288	A
USGS	06130500	1980-04-09	302	A
USGS	06130500	1980-04-10	292	A
USGS	06130500	1980-04-11	315	A
USGS	06130500	1980-04-12	295	A
USGS	06130500	1980-04-13	276	A
USGS	06130500	1980-04-14	266	A
USGS	06130500	1980-04-15	266	A
USGS	06130500	1980-04-16	254	A
USGS	06130500	1980-04-17	248	A
USGS	06130500	1980-04-18	238	A
USGS	06130500	1980-04-19	238	A
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USGS	06130500	1980-04-22	235	A
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USGS	06130500	1980-04-30	81	A
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USGS	06130500	1980-07-11	70	A
USGS	06130500	1980-07-12	56	A
USGS	06130500	1980-07-13	33	A
USGS	06130500	1980-07-14	45	A
USGS	06130500	1980-07-15	39	A
USGS	06130500	1980-07-16	36	A
USGS	06130500	1980-07-17	70	A
USGS	06130500	1980-07-18	147	A
USGS	06130500	1980-07-19	150	A
USGS	06130500	1980-07-20	168	A
USGS	06130500	1980-07-21	195	A
USGS	06130500	1980-07-22	221	A
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USGS	06130500	1995-06-02	294	Ae
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USGS	06130500	2000-05-18	30	A
USGS	06130500	2000-05-19	24	A
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USGS	06130500	2000-06-17	33	A	22.5	A	14.0	A	18.0 A
USGS	06130500	2000-06-18	27	A	26.5	A	16.0	A	21.0 A
USGS	06130500	2000-06-19	37	A	22.0	A	16.0	A	19.5 A
USGS	06130500	2000-06-20	30	A	20.0	A	14.5	A	17.0 A
USGS	06130500	2000-06-21	30	A	24.5	A	14.5	A	19.5 A
USGS	06130500	2000-06-22	32	A	22.5	A	18.5	A	20.5 A
USGS	06130500	2000-06-23	43	A	25.5	A	17.0	A	21.0 A
USGS	06130500	2000-06-24	42	A	24.5	A	18.5	A	21.0 A
USGS	06130500	2000-06-25	31	A	23.0	A	17.0	A	19.5 A
USGS	06130500	2000-06-26	22	A	24.0	A	16.0	A	19.5 A
USGS	06130500	2000-06-27	18	A	26.0	A	16.5	A	21.0 A
USGS	06130500	2000-06-28	23	A	27.5	A	17.0	A	22.0 A
USGS	06130500	2000-06-29	16	A	27.0	A	19.0	A	22.5 A
USGS	06130500	2000-06-30	16	A	29.5	A	18.0	A	22.5 A
USGS	06130500	2000-07-01	37	A	27.0	A	21.0	A	23.5 A
USGS	06130500	2000-07-02	30	A	31.0	A	19.0	A	24.0 A
USGS	06130500	2000-07-03	37	A	27.5	A	20.0	A	22.5 A
USGS	06130500	2000-07-04	54	A	27.5	A	18.5	A	22.0 A
USGS	06130500	2000-07-05	55	Ae	24.0	A	18.0	A	20.0 A
USGS	06130500	2000-07-06	55	Ae	29.5	A	20.5	A	24.0 A
USGS	06130500	2000-07-07	55	Ae	30.5	A	19.5	A	24.5 A
USGS	06130500	2000-07-08	40	Ae	32.0	A	21.0	A	25.0 A
USGS	06130500	2000-07-09	30	Ae	28.5	A	21.5	A	23.5 A
USGS	06130500	2000-07-10	35	Ae	28.0	A	20.0	A	24.0 A
USGS	06130500	2000-07-11	15	Ae	30.5	A	21.0	A	25.5 A
USGS	06130500	2000-07-12	5.0	Ae	32.0	A	21.5	A	26.5 A
USGS	06130500	2000-07-13	1.0	Ae	33.0	A	23.0	A	27.5 A
USGS	06130500	2000-07-14	0.00	Ae	26.5	A	22.5	A	24.5 A
USGS	06130500	2000-07-15	0.00	Ae	27.0	A	20.5	A	23.5 A
USGS	06130500	2000-07-16	0.00	Ae	22.0	A	18.5	A	20.5 A
USGS	06130500	2000-07-17	0.00	Ae	21.5	A	18.5	A	19.5 A
USGS	06130500	2000-07-18	0.00	Ae	28.0	A	17.5	A	22.0 A
USGS	06130500	2000-07-19	2.5	Ae	23.0	A	11.0	A	19.5 A
USGS	06130500	2000-07-20	3.0	Ae	26.5	A	11.5	A	20.5 A
USGS	06130500	2000-07-21	3.0	Ae	29.5	A	20.0	A	24.5 A
USGS	06130500	2000-07-22	2.0	Ae	32.5	A	21.0	A	26.0 A
USGS	06130500	2000-07-23	1.5	Ae	29.0	A	21.0	A	24.0 A
USGS	06130500	2000-07-24	1.0	Ae	28.5	A	21.0	A	24.5 A
USGS	06130500	2000-07-25	0.60	Ae	29.5	A	19.5	A	23.0 A
USGS	06130500	2000-07-26	3.0	Ae	26.0	A	21.0	A	22.0 A
USGS	06130500	2000-07-27	3.0	Ae	29.5	A	23.0	A	25.0 A
USGS	06130500	2000-07-28	2.3	A	25.0	A	22.0	A	23.0 A
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USGS	06130500	2000-07-30	7.2	A	29.5	A	23.0	A	25.5 A
USGS	06130500	2000-07-31	4.7	A	28.5	A	24.0	A	25.5 A
USGS	06130500	2000-08-01	1.6	A	25.0	A	22.5	A	23.5 A
USGS	06130500	2000-08-02	0.94	A	26.0	A	22.5	A	23.5 A
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USGS	06130500	2000-08-06	5.8	A	29.5	A	20.5	A	23.5 A

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USGS	06130500	2000-08-10	0.00	A	24.5	A	21.0	A	22.5	A
USGS	06130500	2000-08-11	0.00	A	26.0	A	20.0	A	22.0	A
USGS	06130500	2000-08-12	0.00	A	21.5	A	17.5	A	19.5	A
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USGS	06130500	2000-08-14	0.00	A	22.5	A	18.5	A	20.5	A
USGS	06130500	2000-08-15	0.00	A	22.0	A	18.0	A	19.5	A
USGS	06130500	2000-08-16	0.00	A	23.5	A	19.5	A	21.5	A
USGS	06130500	2000-08-17	0.00	A	20.5	A	17.0	A	18.5	A
USGS	06130500	2000-08-18	0.00	A	21.0	A	17.5	A	19.0	A
USGS	06130500	2000-08-19	0.00	A	21.5	A	18.5	A	19.5	A
USGS	06130500	2000-08-20	0.00	A	20.5	A	17.5	A	19.0	A
USGS	06130500	2000-08-21	0.00	A	18.0	A	15.5	A	17.0	A
USGS	06130500	2000-08-22	0.00	A	18.5	A	16.0	A	17.5	A
USGS	06130500	2000-08-23	0.00	A	19.5	A	17.0	A	18.5	A
USGS	06130500	2000-08-24	0.00	A	21.0	A	18.5	A	19.5	A
USGS	06130500	2000-08-25	0.00	A	21.5	A	18.5	A	19.5	A
USGS	06130500	2000-08-26	0.00	A	21.5	A	19.0	A	20.5	A
USGS	06130500	2000-08-27	0.00	A	22.0	A	18.5	A	19.5	A
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USGS	06130500	2000-08-29	0.00	A	19.0	A	16.5	A	18.0	A
USGS	06130500	2000-08-30	0.00	A	19.0	A	15.5	A	16.5	A
USGS	06130500	2000-08-31	0.00	A	17.5	A	14.5	A	15.5	A
USGS	06130500	2000-09-01	0.00	A	19.0	A	15.5	A	17.0	A
USGS	06130500	2000-09-02	0.00	A	20.0	A	17.5	A	18.5	A
USGS	06130500	2000-09-03	0.00	A	21.0	A	18.0	A	19.5	A
USGS	06130500	2000-09-04	0.00	A	21.5	A	19.0	A	19.5	A
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USGS	06130500	2000-09-07	0.00	A	18.5	A	14.5	A	16.5	A
USGS	06130500	2000-09-08	0.00	A	19.0	A	15.0	A	17.5	A
USGS	06130500	2000-09-09	0.00	A	18.0	A	15.0	A	16.0	A
USGS	06130500	2000-09-10	0.00	A	15.5	A	14.0	A	15.0	A
USGS	06130500	2000-09-11	0.00	A	17.5	A	14.0	A	15.5	A
USGS	06130500	2000-09-12	0.00	A	18.0	A	14.5	A	16.0	A
USGS	06130500	2000-09-13	0.00	A	21.0	A	16.0	A	18.0	A
USGS	06130500	2000-09-14	0.00	A	18.5	A	16.0	A	17.0	A
USGS	06130500	2000-09-15	0.00	A	19.5	A	16.5	A	17.5	A
USGS	06130500	2000-09-16	0.00	A	22.0	A	18.0	A	19.5	A
USGS	06130500	2000-09-17	0.00	A	21.0	A	18.0	A	19.5	A
USGS	06130500	2000-09-18	0.00	A	20.0	A	17.0	A	18.5	A
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USGS	06130500	2000-10-03	0.00	A						
USGS	06130500	2000-10-04	0.02	A						
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USGS	06130500	2000-10-07	0.00	A						
USGS	06130500	2000-10-08	0.00	A						
USGS	06130500	2000-10-09	0.00	A						
USGS	06130500	2000-10-10	0.00	A						
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USGS	06130500	2000-11-08	10	Ae						
USGS	06130500	2000-11-09	9.0	Ae						
USGS	06130500	2000-11-10	8.0	Ae						
USGS	06130500	2000-11-11	7.0	Ae						
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USGS	06130500	2000-11-13	9.0	Ae						
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USGS	06130500	2000-11-17	11	Ae						
USGS	06130500	2000-11-18	12	Ae						
USGS	06130500	2000-11-19	11	Ae						
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USGS	06130500	2000-11-21	13	Ae						
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USGS	06130500	2001-04-18	8.0	A	20.0	A	8.5	A	14.0	A
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USGS	06130500	2001-04-20	7.6	A	10.5	A	8.0	A	9.5	A
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USGS	06130500	2001-04-29	2.2	A	18.5	A	12.0	A	14.0	A
USGS	06130500	2001-04-30	3.5	A	17.0	A	11.5	A	14.0	A
USGS	06130500	2001-05-01	2.7	A	15.5	A	9.0	A	12.5	A
USGS	06130500	2001-05-02	1.3	A	14.5	A	6.5	A	9.5	A
USGS	06130500	2001-05-03	1.8	A	11.0	A	6.5	A	8.5	A

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USGS	06130500	2001-05-08	0.20	A	16.0	A	7.5	A	10.5	A
USGS	06130500	2001-05-09	0.12	A	16.0	A	10.0	A	12.5	A
USGS	06130500	2001-05-10	0.60	A	19.0	A	11.5	A	14.5	A
USGS	06130500	2001-05-11	0.41	A	14.0	A	9.5	A	11.5	A
USGS	06130500	2001-05-12	0.26	A	14.0	A	10.5	A	12.5	A
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USGS	06130500	2001-05-14	0.00	A	21.5	A	15.5	A	18.0	A
USGS	06130500	2001-05-15	0.01	A	19.0	A	15.0	A	17.0	A
USGS	06130500	2001-05-16	0.01	A	16.0	A	11.5	A	14.0	A
USGS	06130500	2001-05-17	0.00	A	14.5	A	8.0	A	11.5	A
USGS	06130500	2001-05-18	0.00	A	19.0	A	11.5	A	14.5	A
USGS	06130500	2001-05-19	0.01	A	16.5	A	12.5	A	14.5	A
USGS	06130500	2001-05-20	0.01	A	13.0	A	9.0	A	10.5	A
USGS	06130500	2001-05-21	0.00	A	15.0	A	8.0	A	11.0	A
USGS	06130500	2001-05-22	0.00	A	18.5	A	11.5	A	14.5	A
USGS	06130500	2001-05-23	0.00	A	20.5	A	12.0	A	15.0	A
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USGS	06130500	2001-05-26	0.00	A	22.5	A	16.0	A	19.0	A
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USGS	06130500	2001-06-06	53	A	20.0	A	13.0	A	16.0	A
USGS	06130500	2001-06-07	36	A	25.5	A	14.5	A	20.0	A
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USGS	06130500	2001-06-11	22	A	24.0	A	17.5	A	20.5	A
USGS	06130500	2001-06-12	33	A	20.0	A	14.0	A	16.5	A
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USGS	06130500	2001-06-21	33	A	27.5	A	18.5	A	23.0	A
USGS	06130500	2001-06-22	20	A	30.5	A	19.5	A	24.5	A
USGS	06130500	2001-06-23	15	A	28.5	A	22.0	A	25.0	A
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USGS	06130500	2001-06-25	8.0	A	28.0	A	18.5	A	23.0	A
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USGS	06130500	2001-07-01	4.0	A	26.0	A	19.5	A	21.5	A
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USGS	06130500	2001-07-24	18	A	30.5	A	20.5	A	25.0	A
USGS	06130500	2001-07-25	8.6	A	31.5	A	20.5	A	26.0	A
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USGS	06130500	2001-08-01	129	A	25.5	A	19.0	A	22.0	A
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USGS	06130500	2001-08-03	32	A	30.5	A	22.0	A	26.5	A
USGS	06130500	2001-08-04	14	A	32.5	A	24.5	A	27.5	A
USGS	06130500	2001-08-05	7.2	A	32.0	A	22.0	A	26.5	A
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USGS	06130500	2001-08-15	0.00	A	25.5	A	19.5	A	22.5	A
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USGS	06130500	2001-08-19	0.00	A	25.5	A	20.0	A	22.5	A

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USGS	06130500	2001-08-21	0.00	A	23.5	A	19.5	A	22.0	A
USGS	06130500	2001-08-22	0.00	A	23.0	A	19.5	A	20.5	A
USGS	06130500	2001-08-23	0.00	A	22.5	A	20.5	A	21.0	A
USGS	06130500	2001-08-24	0.00	A	22.5	A	19.5	A	21.5	A
USGS	06130500	2001-08-25	0.00	A	22.0	A	19.5	A	20.5	A
USGS	06130500	2001-08-26	0.00	A	21.0	A	19.0	A	20.0	A
USGS	06130500	2001-08-27	0.00	A	21.0	A	19.0	A	20.0	A
USGS	06130500	2001-08-28	0.00	A	23.0	A	19.5	A	20.5	A
USGS	06130500	2001-08-29	0.00	A	21.0	A	18.0	A	19.5	A
USGS	06130500	2001-08-30	0.00	A	21.0	A	19.0	A	20.0	A
USGS	06130500	2001-08-31	0.00	A	20.5	A	19.0	A	19.5	A
USGS	06130500	2001-09-01	0.00	A	22.5	A	18.0	A	20.0	A
USGS	06130500	2001-09-02	0.00	A	21.5	A	19.0	A	20.0	A
USGS	06130500	2001-09-03	0.00	A	21.0	A	18.5	A	19.5	A
USGS	06130500	2001-09-04	0.00	A	20.5	A	18.5	A	19.5	A
USGS	06130500	2001-09-05	0.00	A	24.0	A	19.0	A	21.5	A
USGS	06130500	2001-09-06	0.00	A	19.0	A	16.0	A	17.5	A
USGS	06130500	2001-09-07	0.00	A	17.0	A	14.0	A	15.5	A
USGS	06130500	2001-09-08	0.00	A	16.0	A	12.5	A	14.0	A
USGS	06130500	2001-09-09	0.00	A	16.5	A	12.5	A	15.0	A
USGS	06130500	2001-09-10	0.00	A	16.0	A	13.5	A	14.5	A
USGS	06130500	2001-09-11	0.00	A	17.5	A	14.0	A	16.0	A
USGS	06130500	2001-09-12	0.00	A	17.0	A	15.0	A	16.0	A
USGS	06130500	2001-09-13	0.00	A	16.5	A	15.5	A	15.5	A
USGS	06130500	2001-09-14	0.00	A	15.5	A	14.5	A	15.0	A
USGS	06130500	2001-09-15	0.00	A	16.0	A	14.5	A	15.0	A
USGS	06130500	2001-09-16	0.00	A	15.5	A	14.0	A	14.5	A
USGS	06130500	2001-09-17	0.00	A	16.5	A	14.5	A	15.5	A
USGS	06130500	2001-09-18	0.00	A	16.5	A	14.5	A	15.5	A
USGS	06130500	2001-09-19	0.00	A	18.5	A	15.0	A	16.5	A
USGS	06130500	2001-09-20	0.00	A	16.5	A	13.5	A	14.5	A
USGS	06130500	2001-09-21	0.00	A	16.0	A	14.0	A	15.0	A
USGS	06130500	2001-09-22	0.00	A	17.5	A	14.5	A	16.0	A
USGS	06130500	2001-09-23	0.00	A	17.0	A	14.5	A	15.5	A
USGS	06130500	2001-09-24	0.00	A	16.0	A	14.0	A	15.0	A
USGS	06130500	2001-09-25	0.00	A	16.5	A	15.0	A	15.5	A
USGS	06130500	2001-09-26	0.00	A	19.5	A	15.0	A	17.5	A
USGS	06130500	2001-09-27	0.00	A	18.5	A	15.0	A	16.5	A
USGS	06130500	2001-09-28	0.00	A	19.0	A	15.5	A	17.0	A
USGS	06130500	2001-09-29	0.00	A	17.0	A	15.0	A	15.5	A
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USGS	06130500	2002-02-24	0.00	Ae
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USGS	06130500	2002-03-22	5.0	Ae
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USGS	06130500	2002-03-28	9.0	Ae						
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USGS	06130500	2002-03-31	6.0	Ae						
USGS	06130500	2002-04-01	5.0	Ae	0.0	A	0.0	A	0.0	A
USGS	06130500	2002-04-02	5.0	Ae	0.0	A	0.0	A	0.0	A
USGS	06130500	2002-04-03	5.0	Ae	0.5	A	0.0	A	0.0	A
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USGS	06130500	2002-04-08	13	A	11.5	A	3.0	A	6.5	A
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USGS	06130500	2002-04-12	0.00	A	11.5	A	8.0	A	9.5	A
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USGS	06130500	2002-04-14	0.25	A	11.5	A	9.0	A	10.0	A
USGS	06130500	2002-04-15	2.1	A	9.5	A	6.0	A	8.0	A
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USGS	06130500	2002-04-18	2.6	A	10.5	A	5.5	A	8.0	A
USGS	06130500	2002-04-19	6.5	A	12.5	A	4.5	A	8.5	A
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USGS	06130500	2002-04-21	13	A	16.5	A	5.0	A	10.5	A
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USGS	06130500	2002-04-23	6.6	A	13.0	A	5.5	A	10.0	A
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USGS	06130500	2002-04-27	4.0	A	7.0	A	4.5	A	5.0	A
USGS	06130500	2002-04-28	3.5	A	13.0	A	2.5	A	7.5	A
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USGS	06130500	2002-05-10	12	A	15.0	A	8.5	A	11.5	A
USGS	06130500	2002-05-11	9.2	A	20.0	A	9.0	A	14.5	A
USGS	06130500	2002-05-12	5.0	A	21.0	A	11.0	A	16.0	A
USGS	06130500	2002-05-13	3.2	A	17.5	A	11.5	A	14.0	A
USGS	06130500	2002-05-14	1.9	A	20.5	A	13.0	A	16.0	A
USGS	06130500	2002-05-15	1.2	A	15.0	A	10.0	A	12.5	A
USGS	06130500	2002-05-16	1.4	A	12.0	A	8.5	A	10.0	A

USGS	06130500	2002-05-17	1.3	A	13.0	A	8.5	A	10.5	A
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USGS	06130500	2002-05-19	0.13	A	16.0	A	10.5	A	13.0	A
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USGS	06130500	2002-05-23	0.46	A	11.5	A	4.0	A	7.5	A
USGS	06130500	2002-05-24	0.03	A	15.0	A	8.5	A	11.0	A
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USGS	06130500	2002-05-26	0.22	A	16.5	A	12.5	A	14.0	A
USGS	06130500	2002-05-27	0.10	A	18.5	A	13.5	A	15.5	A
USGS	06130500	2002-05-28	0.15	A	18.0	A	13.5	A	15.5	A
USGS	06130500	2002-05-29	0.34	A	20.5	A	14.5	A	17.0	A
USGS	06130500	2002-05-30	0.19	A	19.5	A	17.0	A	17.5	A
USGS	06130500	2002-05-31	0.06	A	20.5	A	15.5	A	17.5	A
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USGS	06130500	2002-06-04	5.0	A	25.5	A	12.5	A	17.0	A
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USGS	06130500	2002-06-06	3.2	A	21.5	A	16.5	A	18.5	A
USGS	06130500	2002-06-07	0.96	A	18.0	A	14.5	A	16.0	A
USGS	06130500	2002-06-08	1.5	A	18.0	A	14.0	A	15.5	A
USGS	06130500	2002-06-09	4.2	A	16.5	A	13.5	A	15.0	A
USGS	06130500	2002-06-10	25	A	18.0	A	12.0	A	15.0	A
USGS	06130500	2002-06-11	13	A	15.5	A	9.5	A	12.5	A
USGS	06130500	2002-06-12	8.3	A	20.0	A	11.0	A	15.5	A
USGS	06130500	2002-06-13	4.7	A	26.0	A	12.0	A	16.5	A
USGS	06130500	2002-06-14	4.2	A	23.0	A	16.0	A	17.5	A
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USGS	06130500	2002-06-16	4.3	A	27.0	A	18.0	A	20.0	A
USGS	06130500	2002-06-17	3.0	A	23.0	A	19.5	A	20.5	A
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USGS	06130500	2002-06-19	6.1	A	20.5	A	16.5	A	18.5	A
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USGS	06130500	2002-06-22	286	A	23.0	A	16.0	A	19.0	A
USGS	06130500	2002-06-23	1080	A	19.5	A	17.0	A	18.0	A
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USGS	06130500	2002-06-25	165	A	27.5	A	21.0	A	24.0	A
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USGS	06130500	2002-06-27	46	A	31.0	A	23.5	A	27.0	A
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USGS	06130500	2004-01-08	1.5	Ae
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USGS	06130500	2005-02-08	4.5	Ae	1.45	A
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USGS	06130500	2005-04-18	2.0	A	1.17	A
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USGS	06130500	2005-05-26	574	A	3.74	A
USGS	06130500	2005-05-27	511	A	3.59	A
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USGS	06130500	2006-06-12	66	A	1.91	A
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# File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
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# Contact: gs-w_support_nwisweb@usgs.gov
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# Data for the following site(s) are contained in this file
# USGS 06127500 Musselshell River at Musselshell MT
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#
# Data provided for site 06127500
# DD parameter statistic Description
# 01 00060 00003 Discharge, cubic feet per second (Mean)
# 03 00065 00003 Gage height, feet (Mean)
#
# Data-value qualification codes included in this output:
# Ssn Parameter monitored seasonally
# A Approved for publication -- Processing and review completed.
# P Provisional data subject to revision.
# e Value has been estimated.
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USGS	06127500	2007-11-07				
USGS	06127500	2007-11-08				
USGS	06127500	2007-11-09				
USGS	06127500	2007-11-10				
USGS	06127500	2007-11-11				
USGS	06127500	2007-11-12				
USGS	06127500	2007-11-13				
USGS	06127500	2007-11-14				
USGS	06127500	2007-11-15				
USGS	06127500	2007-11-16				
USGS	06127500	2007-11-17				
USGS	06127500	2007-11-18				
USGS	06127500	2007-11-19				
USGS	06127500	2007-11-20				
USGS	06127500	2007-11-21				
USGS	06127500	2007-11-22				
USGS	06127500	2007-11-23				
USGS	06127500	2007-11-24				
USGS	06127500	2007-11-25				
USGS	06127500	2007-11-26				
USGS	06127500	2007-11-27				
USGS	06127500	2007-11-28				
USGS	06127500	2007-11-29				
USGS	06127500	2007-11-30				
USGS	06127500	2007-12-01				
USGS	06127500	2007-12-02				
USGS	06127500	2007-12-03				
USGS	06127500	2007-12-04				
USGS	06127500	2007-12-05				
USGS	06127500	2007-12-06				
USGS	06127500	2007-12-07				
USGS	06127500	2007-12-08				
USGS	06127500	2007-12-09				
USGS	06127500	2007-12-10				

USGS	06127500	2007-12-11				
USGS	06127500	2007-12-12				
USGS	06127500	2007-12-13				
USGS	06127500	2007-12-14	Ssn	P	Ssn	P
USGS	06127500	2007-12-15	Ssn	P	Ssn	P
USGS	06127500	2007-12-16	Ssn	P	Ssn	P
USGS	06127500	2007-12-17	Ssn	P	Ssn	P
USGS	06127500	2007-12-18	Ssn	P	Ssn	P
USGS	06127500	2007-12-19	Ssn	P	Ssn	P
USGS	06127500	2007-12-20	Ssn	P	Ssn	P
USGS	06127500	2007-12-21	Ssn	P	Ssn	P
USGS	06127500	2007-12-22	Ssn	P	Ssn	P
USGS	06127500	2007-12-23	Ssn	P	Ssn	P
USGS	06127500	2007-12-24	Ssn	P	Ssn	P
USGS	06127500	2007-12-25	Ssn	P	Ssn	P
USGS	06127500	2007-12-26	Ssn	P	Ssn	P
USGS	06127500	2007-12-27				
USGS	06127500	2007-12-28				
USGS	06127500	2007-12-29		Ssn	P	
USGS	06127500	2007-12-30				
USGS	06127500	2007-12-31	Ssn	P	Ssn	P
USGS	06127500	2008-01-01	Ssn	P	Ssn	P
USGS	06127500	2008-01-02	Ssn	P	Ssn	P
USGS	06127500	2008-01-03	Ssn	P	Ssn	P
USGS	06127500	2008-01-04	Ssn	P	Ssn	P
USGS	06127500	2008-01-05	Ssn	P	Ssn	P
USGS	06127500	2008-01-06	Ssn	P	Ssn	P
USGS	06127500	2008-01-07	Ssn	P	Ssn	P
USGS	06127500	2008-01-08	Ssn	P	Ssn	P
USGS	06127500	2008-01-09	Ssn	P	Ssn	P
USGS	06127500	2008-01-10	Ssn	P	Ssn	P
USGS	06127500	2008-01-11	Ssn	P	Ssn	P
USGS	06127500	2008-01-12	Ssn	P	Ssn	P
USGS	06127500	2008-01-13	Ssn	P	Ssn	P
USGS	06127500	2008-01-14				
USGS	06127500	2008-01-15	Ssn	P	Ssn	P
USGS	06127500	2008-01-16	Ssn	P	Ssn	P
USGS	06127500	2008-01-17	Ssn	P	Ssn	P
USGS	06127500	2008-01-18		Ssn	P	
USGS	06127500	2008-01-19	Ssn	P	Ssn	P
USGS	06127500	2008-01-20	Ssn	P	Ssn	P
USGS	06127500	2008-01-21	Ssn	P	Ssn	P
USGS	06127500	2008-01-22		Ssn	P	
USGS	06127500	2008-01-23	Ssn	P	Ssn	P
USGS	06127500	2008-01-24		Ssn	P	
USGS	06127500	2008-01-25	Ssn	P	Ssn	P
USGS	06127500	2008-01-26	Ssn	P	Ssn	P
USGS	06127500	2008-01-27	Ssn	P	Ssn	P
USGS	06127500	2008-01-28	Ssn	P	Ssn	P



115 N Broadway, Suite 500
Billings, MT 59101
Phone: 406.652-5000
Fax: 406.248.1363

CONVERSATION LOG

DATE: January 10, 2008

METHOD: Phone (406-273-7273)

CONTACT: Les, Fusion Technologies

REGARDING: HDPE Pipe & Fusion Costs

CONVERSATION SUMMARY:

Discussed with Les that we would be doing another HDPE water line in Melstone. It would be approximately 10 miles of HDPE, probably 6 or 8 inch. I asked Les if he would have a general idea of what it would cost to install or could point me to other contractors that he has worked with. Les noted fusion prices have decreased in the last several years due to increased technology. They can now fuse up to 2 miles/day of 6-inch pipe. A recent project in Arizona was able to fuse ½ mile/day of 18-inch pipe. Les gave me costs for 6-inch pipe (DR 11) at \$4.10 to \$4.18 per foot. That includes some freight, but likely to Melstone would need to include slightly more freight. The price to fuse would be approximately \$0.65 per foot. He could not give me actual trenching costs.

BY: Crystal Bennett

Estimated Costs for: Alternative T-1

Interest Rate	6.00%
Inflation Rate	3.00%
Discount Rate	2.91%

Phase 1a: Well #6

Item	Unit	Quantity	Unit Cost ¹	Total
Pilot Borehole	LF	300	\$25.00	\$7,500
Complete Borehole	LF	300	\$32.00	\$9,600
Well Casing	LF	240	\$38.00	\$9,120
Well Screen	LF	60	\$125.00	\$7,500
Development	HR	10	\$175.00	\$1,750
Temporary Pumping System	LS	1	\$8,500.00	\$8,500
Pumpig Test Hourly	HR	78	\$50.00	\$3,900
Water Quality Analysis	LS	1	\$2,000.00	\$2,000
Pump, Motor, and Electrical Work	LS	1	\$30,000.00	\$30,000
Pitless Unit	EA	1	\$9,500.00	\$9,500
Level Transmitter	EA	1	\$3,000.00	\$3,000
Meter	EA	1	\$3,000.00	\$3,000
Testing and Reporting to Comply with DNRC for Stri	LS	1	\$12,000.00	\$12,000
Sub-Total: Direct Construction Cost				\$107,370
Mobilization, Bonding, Etc.				10.0%
Subtotal: Construction Cost				\$118,107
Contingency				10.0%
Total Construction Cost				\$129,918
Engineering and Construction Administration				16.0%
Grant/Loan Administration				2.0%
Total Capital Costs				\$153,303
Estimated Change to Annual O&M Costs				\$0
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				\$0
20 Year Life Cycle Costs				\$153,303

Phase 1b: Well #7, Treatment Plant Modifications, and Misc.

Item	Unit	Quantity	Unit Cost ¹	Total
Pilot Borehole	LF	460	\$25.00	\$11,500
Complete Borehole	LF	460	\$32.00	\$14,720
Well Casing	LF	400	\$38.00	\$15,200
Well Screen	LF	60	\$125.00	\$7,500
Development	HR	10	\$175.00	\$1,750
Temporary Pumping System	LS	1	\$8,500.00	\$8,500
Pumpig Test Hourly	HR	78	\$50.00	\$3,900
Water Quality Analysis	LS	1	\$2,000.00	\$2,000
Pump, Motor, and Electrical Work	LS	1	\$30,000.00	\$30,000

Pitless Unit	EA	1	\$9,500.00	\$9,500
Level Transmitter	EA	1	\$3,000.00	\$3,000
Generator	EA	1	\$22,000.00	\$22,000
Switchover for Generator	EA	1	\$6,000.00	\$6,000
Connecting to Existing System	LS	1	\$5,000.00	\$5,000
Meter	EA	1	\$3,000.00	\$3,000
Testing and Reporting to Comply with DNRC for Stri	LS	1	\$12,000.00	\$12,000
Connect Well #2 to Existing System	LS	1	\$7,500.00	\$7,500
Add Air Release Valves to Existing Pipeline	EA	1	\$2,500.00	\$2,500
Demolition of Existing Water Treatment Plant	LS	1	\$40,000.00	\$40,000
Sub-Total: Direct Construction Cost (2008)				\$205,570
Mobilization, Bonding, Etc.				10.0%
				\$20,557
Subtotal: Construction Cost (2008)				\$226,127
Subtotal: Construction Cost (2010) ²				\$247,095
Contingency				10.0%
				\$24,710
Total Construction Cost				\$271,805
Engineering and Construction Administration				16.0%
				\$43,489
Grant/Loan Administration				2.0%
				\$5,436
Total Capital Costs				\$320,729
Estimated Change to Annual O&M Costs				\$416
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				\$6,239
20 Year Life Cycle Costs				\$326,969

Phase 2: Wellhouse, Pipeline, and Tank

Item	Unit	Quantity	Unit Cost ¹	Total
Traffic Control	LS	1	\$6,000.00	\$6,000
HDPE Rural Pipeline	LF	63,360	\$15.00	\$950,400
Air Valve in Meter Pit	EA	32	\$2,500.00	\$79,200
Gate Valve	EA	12	\$1,500.00	\$18,000
Flushing Hydrants	EA	12	\$2,000	\$24,000
Tank	LS	1	\$60,000	\$60,000
Wellhouse	LS	1	\$80,000	\$80,000
Extending Power to Wellsite	LF	2,500	\$10	\$25,000
Well Controls	LS	1	\$35,000	\$35,000
Chlorination System	LS	1	\$9,000	\$9,000
Sub-Total: Direct Construction Cost				\$1,286,600
Mobilization, Bonding, Etc.				10.0%
				\$128,660
Subtotal: Construction Cost				\$1,415,260
Contingency				10.0%
				\$141,526
Total Construction Cost				\$1,556,786

Engineering and Construction Administration	16.0%	\$249,086
Grant/Loan Administration	2.0%	\$31,136
Total Capital Costs		\$1,837,007
Estimated Change to Annual O&M Costs		(\$17,000)
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)		(\$254,972)
20 Year Life Cycle Costs		\$1,582,035

¹ Estimated unit costs are based upon estimates from suppliers and bid tabs for similar projects throughout

² The ENR 2006 Forecast for the Construction Cost Index is +2.8%, so capital costs are projected to an anticipated construction date in 2010 using a conservative 3.0% inflation rate.

Phases 1 and 2

Item	Unit	Quantity	Unit Cost ¹	Total
Phase 1a: Well #6				\$118,107
Phase 1b: Well #7, Water Plant Modifications, and Misc.				\$247,095
Phase 2: Wellhouse, Pipeline, and Tank				\$1,415,260
Subtotal: Construction Cost (2010) ²				\$1,780,462
Contingency		10.0%		\$178,046
Total Construction Cost				\$1,958,508
Engineering and Construction Administration		16.0%		\$313,361
Grant/Loan Administration		2.0%		\$39,170
Total Capital Costs				\$2,311,040
Estimated Change to Annual O&M Costs				(\$16,584)
O&M Difference Over 20 yr Planning Period (2.91% Discount Rate)				(\$248,733)
20 Year Life Cycle Costs				\$2,045,723

DESCRIPTION	2004	2005	2006
<u>Operating Expenses</u>	-----	-----	-----
Personal Services	\$16,115.09	\$16,964.32	\$21,044.10
Supplies	\$9,046.21	\$9,304.10	\$4,975.03
Purchased Services	\$7,091.40	\$11,369.16	\$13,131.75
Building Materials	\$0.00	\$0.00	\$0.00
Fixed Charges	\$865.00	\$0.00	\$0.00
Loss/Bad Debt Expense	\$0.00	\$0.00	\$0.00
Depreciation	\$19,890.33	\$19,890.63	\$19,890.63
<u>Debt Expenses</u>	-----	-----	-----
Debt Service Interest Expense	\$289.83	\$204.85	\$7,801.01
TOTAL EXPENSES	\$53,297.86	\$57,733.06	\$66,842.52
<u>Operating Revenue</u>	-----	-----	-----
Charges for Services	\$39,667.80	\$54,078.53	\$53,009.04
Miscellaneous Revenues	\$45.00	\$0.00	\$0.00
<u>Contributions & Transfers</u>	-----	-----	-----
Capital Contributions	\$26,357.23	\$212,594.16	\$468,907.21
TOTAL INCOME	\$66,070.03	\$266,672.69	\$521,916.25
NET PROFIT (LOSS)	\$12,772.17	\$208,939.63	\$455,073.73

Total Expenses less Debt Service	\$53,008.03	\$57,528.21	\$59,041.51
Total Water Usage (gal/yr)	---	8,965,640	9,870,870
Cost per Gallon (\$/gal)	---	\$0.01	\$0.01

Regulated Contaminants	MCL (mg/l)	MCLG (mg/l)
Total Trihalomethanes (TTHM)	0.080 LRAA	
Chloroform		0.07
Bromodichloromethane		0
Dibromochloromethane		0.06
Bromoform		0
Five Haloacetic Acids	0.060 LRAA	
Monochloroacetic acid		0.07
Dichloroacetic acid		0
Trichloroacetic acid		0.02
Bromoacetic acid		-
Dibromoacetic acid		-

Energy Usage for Alternative 1: Microfiltration

Component	Energy Usage (kW-hr/year)	Estimated Usage Costs (\$/kW-hr)	Estimated Energy Costs (\$/year)
Wells #1 and #2	19,245	\$0.08	\$1,540
Microfiltration	19,400	\$0.08	\$1,552
UV Disinfection	2,754	\$0.08	\$220
High Service Pumps	13,527	\$0.08	\$1,082
Raw Water Pumps	3,886	\$0.08	\$311
Misc. Costs (Building Heat, etc.)	---	---	\$1,200
Total	58,812	\$0.40	\$5,905

Energy Usage for Alternative 2: Wells

Component	Energy Usage (kW-hr/year)	Estimated Usage Costs (\$/kW-hr)	Estimated Energy Costs (\$/year)
Wells #1 and #2	19,245	\$0.08	\$1,540
Wells #6 and #7	28,782	\$0.08	\$2,303
Misc. Costs (Building Heat, etc.)	---	---	\$600
Total	48,027	\$0.16	\$4,442

EVAPORATION POND - EARTHWORK

Total Sludge Allowance	2 ft
Total Water Depth	1 ft
Total Freeboard	2 ft
Total Depth	5 ft
Total Depth at Avg. Water Level	2.5 ft
Total Lagoon Area	0.83 acres 36,155 sf
Assumed Slope	3 H:V
Dike Width	10 ft
Length at Avg. Water Level	190 ft
Length at Footprint	175 ft
Length at Top of Dike	205 ft
Length at Middle of Dike	215 ft
Total Area of Dike	125 sf
Total Volume of Dike	107,500 cf
Total Earthwork	3,981 cy
Use for Cost Estimates	4,380 cy

SYSTEM	TARGET RATE	EXISTING RATE	PROJECTED RATE	% OF TARGET RATE (projected)
MDOC: Water Only	\$36.46	\$57.00	\$65.51	156.3%
MDOC: Wastewater Only	\$23.44	\$12.75	\$16.50	54.4%
MDOC: Combined Target Rate	\$59.90	\$69.75	\$82.01	136.9%
Percent of Target Rate	---	116.4%	136.9%	

Water rates c
Wastewater r

Water Rates

Note: Based on Black Mountain Report for 7/1/2005 through 6/30/2006

Residential Monthly Usage (for year)

Residential Charges (for year)

Residential Number (for year)

Average Residential Rate

Check Rate Based on Usage:

Average Residential Usage

Average Residential Rate (based on usage)

Note: Rate seems to check

0.77777778

currently charged at flat fee of \$57.00 but have rates in place to charge at \$48 (up to 1,000 gallons) + \$3.00 / 1,000 gallons over 1,000 gallons at \$12.75 (flat fee) for residential but rates in place for \$16.50 for June 1, 2010

ins for 3/4" residential meter

Spreadsheet Title: Detailed Project Budget

Client: Town of Melstone

Project: 2007 Water System PER

Prepared: April 2008

Source	Existing CDBG Funds ¹	Existing RD Grant/Loan Funds ¹	TSEP	DNRC	Additional RD Grant/Loan	Total All Sources
Administrative and Financial Services						
Personnel Costs	\$1,649.60		\$1,050.40			\$2,700.00
Office Costs	\$700.00	\$800.00	\$1,000.00			\$2,500.00
Professional Services	\$898.77	\$1,203.50	\$22,036.73		\$14,000.00	\$38,139.00
Legal Costs	\$1,000.00		\$1,000.00			\$2,000.00
Audit Fees	\$1,000.00	\$1,000.00	\$1,000.00		\$1,000.00	\$4,000.00
Travel & Training			\$1,000.00			\$1,000.00
Loan Fees						\$0.00
Loan Reserves		\$19,800.00			\$21,158.00	\$40,958.00
Interim Interest						\$0.00
Bond Counsel and Related Costs					\$4,000.00	\$4,000.00
Total Administrative/Financial Costs	\$5,248.37	\$22,803.50	\$27,087.13	\$0.00	\$40,158.00	\$95,297.00
Activity Costs						
Preliminary Engineering (PER)						\$0.00
Land Acquisition			\$20,000.00			\$20,000.00
Engineering Design	\$1,171.36	\$9,882.99			\$141,502.65	\$152,557.00
Construction Engineering Services	\$11,988.63	\$45,269.80	\$95,298.57			\$152,557.00
Construction	\$338,137.25	\$272,207.46	\$438,740.00	\$90,000.00	\$574,516.29	\$1,713,601.00
Contingency	\$21,330.00	\$23,700.00	\$43,874.30	\$10,000.00	\$74,455.70	\$173,360.00
Total Activity Costs	\$372,627.24	\$351,060.25	\$597,912.87	\$100,000.00	\$790,474.64	\$2,212,075.00
Total Project Costs	\$377,875.61	\$373,863.75	\$625,000.00	\$100,000.00	\$830,632.64	\$2,307,372.00

¹ CDBG and RD funds are already available to the Town and represent the total amount of funds remaining as of 2/8/2008

National Register of Historic Places



State Bank of Townsend, Broadwater County, listed in the National Register of Historic Places January 13, 1992

Listings in the State of

MONTANA

UPDATED IN THE YEAR 2002

STATE HISTORIC PRESERVATION OFFICE MONTANA HISTORICAL SOCIETY

National Register of Historic Places

PROPERTIES OFFICIALLY LISTED THROUGH THE YEAR 2002

MONTANA STATE HISTORIC PRESERVATION OFFICE (SHPO)

1410 Eighth Avenue
P.O. Box 201202
Helena, MT 59620-1202
Phone: (406) 444-7715
FAX: (406) 444-6575

The State Historic Preservation Office (SHPO) received Federal Funds from the National Park Service, U.S. Department of the Interior. The contents and opinions of the sign program do not necessarily reflect the views or policies of the Department of the Interior. The SHPO receives federal financial assistance for identification and protection of historic properties. Under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, and the Age Discrimination Act of 1975 as amended, the U.S. Department of the Interior prohibits discrimination on the basis of race, color, national origin, disability or age in its federally assisted programs. If you believe you have been discriminated against in any program, activity or facility as described above, or if you desire further information, please write to: Office of Equal Opportunity, National Park Service, 1849 C Street, NW, Washington, D.C. 20240.

National Historic Landmarks in Montana

Formal Name	Town	County	Type
Bannack Historic District	Dillon	Beaverhead	District
Butte Historic District	Butte	Silver Bow	District
Camp Disappointment	Browning	Glacier	Site
Chief Joseph Battleground of Bear's Paw	Chinook	Blaine	Site
Chief Plenty Coups (Alek-chea-Ahoosh) Homestead	Pryor	Big Horn	District
Fort Benton	Fort Benton	Chouteau	District
Fort Union Trading Post	Fort Union	Roosevelt	District
Going-to-the-Sun Road	West Glacier	Flathead	District
Grant-Kohrs Ranch	Deer Lodge	Powell	District
Great Falls Portage	Great Falls	Cascade	District
Great Northern Railway Buildings	Glacier National Park	Glacier and Flathead	District
Hagan Site	Glendive	Dawson	Site
Lake McDonald Lodge	West Glacier	Flathead	Building
Lemhi Pass		Beaverhead	Site
Lolo Trail	Lolo Hot Springs	Missoula	Structure
Northeast Entrance Station	Yellowstone National Park	Park	Building
Pictograph Cave	Billings	Yellowstone	Site
Pompey's Pillar	Pompey's Pillar	Yellowstone	Site
Rankin Ranch	Avalanche Gulch	Broadwater	District
Russell (Charles M.) House and Studio	Great Falls	Cascade	District
Three Forks of the Missouri	Missouri Headwaters State Park	Gallatin	Site
Traveler's Rest	Lolo	Missoula	Site
Virginia City Historic District	Virginia City	Madison	District
Wheeler (Burton K.) House	Butte	Silver Bow	Building

➤ Indicates a National Historic Landmark

MONTANA
NATIONAL REGISTER OF HISTORIC PLACES
Updated in the year 2002

BEAVERHEAD COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
➤ Bannack Historic District, 22 mi. from Dillon, off MT 278, Dillon, 10/15/1966 66000426 NHL 07/04/1961	24BE0169
-- Barrett Hospital , Chapman and S. Atlantic Streets, Dillon 01/18/1985 85000109 (demolished)	24BE1295
-- Barrett, Martin, House , 733 S. Pacific, Dillon 01/28/1987 86003675	24BE1318
-- Big Hole National Battlefield , 12 mi. W of Wisdom, Wisdom 10/15/1966 66000427	24BE0801
-- Birch Creek CCC Camp , N of Dillon on USFS Rd 98, Dillon 12/07/1982 82000591	24BE1194
-- Clark's Lookout, August 13, 1805 , W side US 91, 500 ft N of Beaverhead River, Dillon, 03/10/1994 94000136	24BE1708
-- Dillon City Library , 121 S. Idaho St., Dillon 11/14/1978 78001679	24BE0802
-- Hotel Metlen , 5 S. Railroad Ave., Dillon 12/13/1983 83003978	24BE1377
-- Lamarche Game Trap , Address restricted, Dillon 09/28/1976 76001117	24BE1011
➤ Lemhi Pass, 12 miles East of Tendoy off Idaho 28, NHL 10/09/1966	24BE0810
-- Montana State Normal School , 710 S. Atlantic St., Dillon 08/27/1980 80002398	24BE0805
-- Oregon Short Line Passenger Depot , S. Montana St., Dillon, 04/19/1990 90000628	24BE1517
-- Seep Creek Wickiup Cave , Address restricted, Lima 09/23/1981 81000338	24BE0601
-- US Post Office, Dillon, Main , 117 S. Idaho St., Dillon 03/14/1986 US Post Offices in Montana, 1900 – 1941, TR 8700683	24BE1376

MONTANA
NATIONAL REGISTER OF HISTORIC PLACES
Updated in the year 2002

BIG HORN COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Annashisee lisaxpuatahcheeaashisee**-Medicine Wheel, on the Bighorn River, address restricted, Fort Smith vicinity, 99000343, 03/25/1999 **24BH0220**
- **Baldwin House**, 25 Third Ave., Lodge Grass 08/03/1987 Lodge Grass MRA 87001270 **24BH1614**
- **Battle of the Rosebud Site**, 6 mi. S of Kirby, Kirby 08/21/1972 72000735 **24BH2461**
- **Bighorn Ditch**, Headgate W of Fort Smith at mouth of Bighorn Canyon, Fort Smith 12/12/1976 76000174 **24BH2181**
- **Boyum, John, House**, 225 W. Sixth St., Hardin 04/11/1991 Hardin MPS 91000371 **24BH1982**
- **Burke, Thomas H., House**, 604 N. Cody, Hardin 04/11/1991 Hardin MPS 91000368 **24BH0613**
- **Cammock's Hotel**, 28 N. Main St., Lodge Grass 08/30/1987 Lodge Grass MRA 87001271 **24BH2546**
- **Camp Four**, 11 mi. NE of Fort Smith on Fort Smith- Hardin Co. Rd. Fort Smith, 01/21/1992 91001940 **24BH2566**
- **Chief Plenty Coups Memorial, 1 mi W of Pryor 10/06/1970 NHL 70000354** **24BH2179**
- **Chivers Memorial Church**, E of Chicago Burlington RR tracks, W side of US 87, Lodge Grass MPS 87001274 **24BH2547**
- **Little Big Horn, (formerly Custer) Battlefield National Monument** 15 mi. S of Hardin, Hardin 10/15/1966 66000428 **24BH2175**
- **Drew, J. W. Grain Elevator**, E side of Main St., Lodge Grass 08/03/1987 Lodge Grass MPS 87001274 **24BH2548**
- **Ebeling, William, House**, 704 N. Crow Ave., Hardin 04/11/1991 Hardin MPS 91000370 **24BH1984**

MONTANA
NATIONAL REGISTER OF HISTORIC PLACES
Updated in the year 2002

BIG HORN COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Eder, Charles S., House , 416 W. Third St., Hardin 04/11/1991 Hardin MPS 91000374	24BH1987
-- First Baptist Church , 524 N. Custer Ave., Hardin 04/11/1991 Hardin MPS 91000369	24BH1983
-- Fort C. F. Smith Historic District , E of Fort Smith in Bighorn Canyon National Recreation Area, Fort Smith 10/10/1975 75000163	24BH1989
-- Haverfield Hospital , 520 W. Third St., Hardin 04/11/1991 Hardin MPS 91000376	24BH0217
-- Hardin Commercial District , Roughly bounded by 4th, Crook, Burlington Northern RR, 1st and Crow Sts., Hardin 08/14/1985 Hardin MRA 85001845	24BH2564
-- Hardin Residential District , Roughly bounded by 5th, 4th, Crow and Cody, Hardin 08/14/1985 Hardin MRA 85001846	24BH2565
-- Kopriva, Francis, House , 416 Crawford Ave., Hardin 04/11/1991 Hardin MPS 91000377	24BH1990
-- Lee Homestead , NE of Decker, Decker 07/08/1981 81000659	24BH2349
-- Lodge Grass City Jail , Alley S of Third Ave., Lodge Grass 08/03/1987 Lodge Grass MRA 87001276	24BH2550
-- Lodge Grass Merchandise Company Store , First Ave., Lodge Grass, 08/03/1987 Lodge Grass MRA 87001275	24BH2551
-- Moncure Tipi , Highway 212, Busby, 12/19/2002	24BH2443
-- OW Ranch , Roughly 15 mi. S of Birney on Hanging Woman Cr., Birney 12/15/1992 92001321	24BH2571
-- Pease's, George, Second Store , 8 N. Main St., Lodge Grass 08/03/1987 Lodge Grass MRA 87001278	24BH5252
-- Ping, J. J., House , 119 W. Sixth St., Hardin 04/11/1991 Hardin MPS 91000373	24BH1986

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BIG HORN COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Reno Apartments , 719 N. Custer Ave., Hardin 04/11/1991 Hardin MPS 91000378	24BH1991
-- Ryan's, John, House , 15 N. Helen St., Lodge Grass 08/03/1987 Lodge Grass MRA 87001277	24BH2553
-- Sharp's, Jay, Store , 18 Helen St., Lodge Grass 08/03/1987 Lodge Grass MRA 87001279	24BH2554
-- Simmonsens's House , 4 S. George St., Lodge Grass 08/03/1987 Lodge Grass MRA 87001273	24BH2555
-- St. Joseph Catholic Church , 710 N. Custer Ave., Hardin 04/11/1991 Hardin MPS 91000379	24BH1992
-- St. Xavier Mission Church and Rectory , on the Big Horn River in the Crow Indian Reservation, St. Xavier 08/17/1990 90001214	24BH2463
-- Stevens, Dominic, House , 10 W. Hester Ave., Lodge Grass 08/03/1987 Lodge Grass MRA 87001280	24BH2556
-- Sullivan Rooming House , 217 W. Sixth St., Hardin 04/11/1991 Hardin MPS 91000372	24BH1988
-- Sullivan, James J., House , 220 W. Third St., Hardin 04/11/1991 Hardin MPS 91000380	24BH1985
-- Trytten, J. M., House , George St., Lodge Grass 08/03/1987 8701281 Lodge Grass MRA	24BH2557
-- Tupper, J. S., House , 502 N. Cody, Hardin 04/11/1991 Hardin MPS 91000381	24BH1993

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BLAINE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Chief Joseph Battleground of the Bear's Paw, about 15 mi. S of Chinook, T 30N R 19E, Sections 1 and 12, Chinook 10/06/1970 70000355 NHL 06/07/88** **24BL177**

- **Dave's Texaco, 237 Pennsylvania St., Chinook 08/16/1994** **24BL1261**
Roadside Architecture along US 2 in Montana, MPS 94000862

- **Great Northern Railroad** **24BL1574**

- **Lodgepole Community Hall, Fort Belknap Indian Community, Lodgepole, Blaine County, 00000148, 02/24/2000** **24BL1579**

- **Lohman Block, 239-225 Indiana St., Chinook 03/19/1980 80002399** **24BL0917**

- **Scherlie, Anna, Homestead Shack, MT241, S. of the Canadian border, Turner vicinity 11/05/1998 98001338** **24BL1561**

- **Young Brothers Chevrolet Garage, 201 Pennsylvania St. Chinook 08/16/1994 Roadside Architecture along U.S. 2, Montana MPS 94000867** **24BL1262**

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BROADWATER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Crow Creek Water Ditch , Helena National Forest, Headwaters Resource Area, Townsend vicinity, 01000323, 03/29/2001	24BW0148 &24BW0735
-- Eagle Guard Station , 11 miles W of Townsend, Townsend vicinity, 01001014, 09/20/2001	24BW0074
-- McCormick's Livery and Feed Stable Sign , W of Townsend, Townsend 07/08/1981 81000339	24BW0296
➤ Rankin Ranch, 2 1/2 mi. NE of the Helena, Diamond City Rd., Avalanche Gulch 05/11/1976 76001119 NHL 05/11/1976	24BW0462
-- St. Joseph's Catholic Mission Church , 3947 MT 284, Townsend vicinity 11/05/1998 98001339	24BW1501
-- State Bank of Townsend , 400 Broadway, Townsend 01/13/1992 91001941	24BW0203

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CARBON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Bad Pass Trail , E of Warren along Big Horn River in Bighorn Canyon National Recreation Area, Warren 10/29/1975 75000215	24CB0853
-- Baker and Lovering Store , Main St., Joliet 05/02/1986 Joliet, Montana MRA 86000885	24CB1257
-- Baldwin Building , Jct. of W. River St. and Harley Ave., 01/28/1993 Fromberg MPS 92001777	24CB0679
-- Benson, Dr. Theodore J., House , 10 N. Montana, Fromberg 01/28/1993 Fromberg MPS 92001780	24CB0688
-- Blewett, John, House , 2411 E. River St., Fromberg 01/28/1993 Fromberg MPS 92001789	24CB0682
-- Bridger Coal Company House , 307 W. Broadway, Bridger 09/15/1987 Bridger MRA 87001215	24CB1243
-- Bridger Opera House , E. Broadway, Bridger 09/15/1987 Bridger MRA 87001217	24CB1244
-- Brooder, Frank, House , 303 North St., Fromberg 01/28/1993 Fromberg MPS 92001787	24CB0690
-- Calvary Episcopal Church , 9 N. Villard Ave., Red Lodge 10/23/1986 86002928	24CB1084
-- Camp Senia Historic District , Custer National Forest, Red Lodge 04/14/1988, 88000441	24CB1134
-- Cedarvale , the present town of Hillsboro and its environs in Bighorn Canyon National Recreation Area, Hillsboro 08/19/1975 75000161	24CB1029
-- Corey House , 106 N. E St., Bridger 07/21/1987 Bridger MRA 87001219	24CB1245

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CARBON COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Demijohn Flat, Archeological District , Address Restricted, Bridger 11/20/1974 74001092	24CB0478
-- Ewing-Snell, Ranch , S of Dryhead, Dryhead 05/12/1977 77000114	24CB1027
-- Joliet Fire Hall , Main St., Joliet 05/02/1986 Joliet, Montana MRA 86000884	24CB1258
-- Forsman House , 406 E. Carbon Ave., Bridger 07/21/1987 Bridger	24CB1246
-- Fromberg Concrete Arch Bridge , River St. over the Clarks Fork of the Yellowstone River, Fromberg 01/28/1993 Fromberg MPS 92001790	24CB1223
-- Fromberg High School , Kids Ct., Fromberg 01/28/1993 Fromberg MPS 92001788	24CB0689
-- Fromberg Methodist-Episcopal Church , Jct. of N. Montana Ave. and School St., Fromberg 01/28/1993 Fromberg MPS 92001781	24CB0684
-- Fromberg Opera House , Jct. of Harley Ave. and C St., Fromberg 01/28/1993 Fromberg MPS 92001779	24CB0692
-- Gebo Cemetery , Co Rd. linking Gebo and Fromberg, 04/08/1993 93000291	24CB0694
-- Gebo, Henry, House , E of Bridger, Bridger 07/21/1987 Bridger MRA 87001234	24CB1247
-- Gibson, John, House , 219 W. River St., Fromberg 01/28/1993 Fromberg MPS 92001785	24CB0685
-- Glidden House , 112 N. E St., Bridger 07/21/1987 Bridger MRA 87001236	24CB1248
-- Glidden Mercantile , 102 N. Main, Bridger 09/15/1987 Bridger MRA 87001237	24CB1249

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CARBON COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Greenblatt, Samuel, House , 215 W. River St., Fromberg 01/28/1993 Fromberg MPS 92001784	24CB0680
-- Heatherington Boarding House , 209 E. Broadway, Bridger 09/15/1987 Bridger MRA 87001240	24CB1250
-- Hi Bug Historic District , Roughly bounded by W. Third St., N. Villard Ave., W. Eight St., and N. Word Ave., Red Lodge 07/23/1986 86001932	24CB1030
-- Hough, Raymond, House , 312 S. Second, Bridger 09/15/1987 Bridger MRA 87001242	24CB1251
-- House on Railroad Avenue , Railroad Ave., Joliet 05/02/1986 Joliet 86000889, Montana MRA	24CB1259
-- IOOF Hall and Fromberg Co-operative Mercantile Building , 123 W. River St., Fromberg 01/28/1993 Fromberg MPS 92001778	24CB0683
-- Joliet Bridge , carries Main St. over Rock Creek, Joliet 05/02/1986 Joliet, Montana MRA 86000888	24CB1260
-- Joliet High School , Main St., Joliet 05/02/1986 Joliet, Montana MRA 86000887	24CB1261
-- Joliet Residential Historic District , roughly bounded by Northern Pacific RR and US, State St., Carbon Ave. & Second St., Joliet 05/02/1986 Joliet, Montana MRA 86000892	24CB0479
-- Kent Dairy Round Barn , US 212, 2 mi. N. of Red Lodge, Red Lodge 04/07/1995 95000381	24CB1320
-- Lockhart, Caroline, Ranch , Davis Creek, 70 mi. S. of Hardin, Dead Hill 11/03/1989 89000155	24CB1085
-- Marcus, Dr. Carl, House , 210 S. Second, Bridger 09/15/1987 Bridger MRA 87001243	24CB1253

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CARBON COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- McCall, Tracy, House , 110 N. Montana Ave., Fromberg 01/28/1993 Fromberg MPS 92001782	24CB0686
-- Methodist Episcopal Church and Parsonage , 220 W. Broadway, Bridger 09/15/1987 Bridger MRA 87001244	24CB1254
-- Northern Pacific Railroad Depot , Fromberg Jct. of U.S. 310 and River St., Fromberg 01/28/1993 Fromberg MPS 92001776	24CB0687
-- Nutting Rental , Carbon Ave., Bridger 09/15/1987 Bridger MRA 87001245	24CB1255
-- Petroglyph Canyon , Address Restricted, Warren 11/20/1975 75001079	24CB0601
-- Pretty Creek Archaeological Site , Address Restricted, Hardin 01/17/1975 75000162	24CB0445
-- Rahrer, Francis, House , 309 School St., Fromberg 01/28/1993 Fromberg MPS 92001786	24CB0691
-- Red Lodge Commercial Historic District (Boundary Increase) , S Broadway between Eighth and Fifteenth Sts., Red Lodge 08/28/1986 86001904	24CB0145
-- Rock Creek State Bank , Main St. Joliet 05/02/1986 Joliet, Montana MRA 86000890	24CB1262
-- Smith, T. W., House , Front St., Joliet 05/02/1986 Joliet, Montana MRA 86000886	24CB1263
-- Southern Hotel , Main St., Joliet 05/02/1986 Joliet, Montana MRA 86000891	24CB1264

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CARBON COUNTY (continued)

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- | | |
|--|-----------------|
| -- Suydam, Hester E., Boarding House , 209 W. River St., Fromberg
01/28/1993 Fromberg MPS 92001783 | 24CB0681 |
| -- Warila Boarding House and Sauna , 20 N. Haggin, Red Lodge
10/24/1985 85003382 | 24CB1028 |
| -- Wool Warehouse , E. Bridger, Bridger 07/21/1987 Bridger MRA 87001246 | 24CB1256 |

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CARTER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

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No properties listed

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CASCADE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Adam's, J. C., Stone Barn , NE of Sun River off U.S. 81, Sun River 01/12/1979 79001399	24CA0237
-- Arvon Block , 114-116 First Ave. S., Great Falls 09/26/1991 91001446	24CA0032
-- Belt Jail , Castner St., Belt 03/10/1980 80002400	24CA0234
-- Burlingame School , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000575	24CA0336
-- Cascade County Courthouse , 415 2nd Ave., N., Great Falls 04/16/1980 80002401	24CA0233
-- Chicago, Milwaukee and St. Paul Passenger Depot , River Dr., N, Great Falls 10/13/1988 88001119	24CA0271
-- Collins, Timothy Edwards, Mansion 1003--1017 2nd Ave., NW, Great Falls 08/27/1980 80002402	24CA0212
-- Crocker-Jarvi Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000572	24CA0337
-- Ford, Lee M., House , 401 4th Ave. N., Great Falls 08/10/1990 90001215	24CA0312
-- Fort Shaw Historic District and Cemetery , 1 mi. NW of Town of Fort Shaw 01/11/1985 85000065 Fort Shaw, MT	24CA0084
-- Great Falls Central High School , 1400 1st Ave., N., Great Falls 09/01/1976 76001120	24CA0236
-- Great Falls Northside Residential Historic District 200-900 blocks 4th Ave. N. 100-900 blocks 3rd Ave. N. and 500-900 blocks 2nd Ave. N., Great Falls 04/01/1991 91000355	24CA0084
➤ Great Falls Portage , SE of Great Falls at Jct. of U.S. 87, 89, and 91, Great Falls 10/15/1966 66000429 NHL 05/23/66	24CA0238

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CASCADE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Great Falls Railroad Historic District , Park and River Drs., 100-400 blks. 2nd St S. 100--200 blks. 1st and 2nd Aves. S. and 100--300 blks. 3rd St. S., Great Falls 02/19/1993 93000038	24CA0335
-- Heikkila-Mattila Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000573	24CA0338
-- Kraftenberg Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000574	24CA0272
-- Lewis-Nevala Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000576	24CA0339
-- Margaret Block , 413-415 Central Ave, Great Falls 08/02/1984 84002447	24CA0235
-- Masonic Lodge , 821 Central Avenue, Great Falls, 00001568, 12/28/2000	24CA0670
-- Mullan Road , N of Great Falls in Benton Lake National Wildlife Refuge, Great Falls 03/13/1975 75001080	24CA0089
-- Northern Montana State Fairground Historic District , 3rd St., NW, Great Falls 01/13/1989 88003143	24CA0299
-- Randall, Harry E., House , 1003 Fourth Ave. N, Great Falls 03/27/1986 86000583	24CA0252
-- Roberts Building , 520-526 Central Ave., Great Falls 09/12/1985 85002165	24CA0231
➤ Russell, Charles M., House and Studio , 1217-1219 4th Ave. N., Great Falls 10/15/1966 66000430 NHL 05/11/76	24CA0239
-- St. Peter's Mission Church and Cemetery , W of Cascade, Cascade 08/03/1984 84002452	24CA0240
-- Stone Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000577	24CA0341
-- Tenth Street Bridge , 10th St. across the Missouri River, Great Falls 04/25/1996 96000480	24CA0308

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CASCADE COUNTY

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- | | |
|--|-----------------|
| -- Tower Rock , 8 miles South of Cascade at Interstate 15 and Interstate 247, Cascade vicinity, 02000213, 03/18/2002 | 24CA0643 |
| -- Ulm Pishkun , Address Restricted, Ulm 12/17/1974 74001093 | 24CA1012 |
| -- Ursuline Academy , 2300 Central Ave., Great Falls 09/26/1991 91001447 | 24CA0329 |
| -- US Post Office and Courthouse , Great Falls, 215 First Ave. N, Great Falls 03/14/1986 US Post Offices in Montana, 1900-1941, TR 86000681 | 24CA0232 |
| -- Vaughn, Robert, Homestead , Vaughn Cemetery Rd. Cascade County Rd., Vaughn 06/14/1982 82003160 | 24CA0230 |
| -- Wargelin-Warila Homestead , Address Restricted, Belt 06/01/1992 Korpivaara MPS 92000578 | 24CA0342 |

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CHOUTEAU COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Baker, I. G., House , 1604 Front St., Fort Benton 11/20/1980 80002403	24CH0232
-- Chouteau County Courthouse , 1308 Franklin St., Fort Benton 09/29/1980 80002404	24CH0337
-- Citadel Rock , E of Fort Benton, Fort Benton 11/13/1974 74001095	24CH0098
➤ Fort Benton Historic District , Fort Benton 10/15/1966 66000431 NHL 11/05/61	24CH0241
-- Fort Benton Bridge , Spans Missouri River, Fort Benton 08/06/1980 80002406	24CH0335
-- Fort Benton Engine House , Front and 15th Sts., Fort Benton 11/20/1980 80002407	24CH0555
-- Geraldine Milwaukee Depot , Railroad Ave., approximately 10 mi S of MT 80 Geraldine 03/21/1997 97000254	24CH1047
-- Grand Union Hotel , 14th and Front Sts., Fort Benton 01/02/1976 76001121	24CH0334
-- Judith Landing Historic District , Address Restricted, Winifred 12/06/1975 75001081	24CH0331
-- Lewis and Clark Camp at Slaughter River , 40 mi. S of Big Sandy River on Missouri River, Big Sandy 12/16/1974 74001094	24CH0566
-- Lonetree , S of Geraldine, Geraldine 09/11/1980 80002410	24CH0565
-- Masonic Building , 1418 Front St., Fort Benton 10/14/1980 80002408	24CH0597
-- St. Paul's Episcopal Church , 14th and Chouteau Sts., Fort Benton 09/29/1980 80002409	24CH0336
-- Square Butte Jail , Salsbury Ave, Square Butte 07/23/1998 98000888	24CH1054

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CHOUTEAU COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

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- | | |
|--|--|
| <p>-- Teton River Crossing on the Whoop-Up Trail, Address Restricted,
Carter 04/15/1993 Whoop-Up Trail of Northcentral Montana MPS
93000275</p> <p>-- Virgelle Mercantile and Virgelle State Bank, County Rd. 430,
approximately 6.3 mi. S of US 87, Virgelle 04/15/1997 97000315</p> <p>-- West Quincy Granite Quarry, Flat Creek Rd., Square Butte, 00000163
03/03/2000</p> | <p>24CH0884</p> <p>24CH0977</p> <p>24CH0984</p> |
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CUSTER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Fort Keogh , 2.5 mi. (4 km) SW of Miles City, Miles City 03/08/1978 78001680	24CR0462
-- Harmon, William, House , 1005 Palmer, Miles City 09/25/1986 86002747	24CR0668
-- Ismay Jail , Jailhouse Rd., W of Jct. with East St., Ismay 06/04/1997 97000501	24CR0795
-- Miles, George M., House , 28 S. Lake St., Miles City 02/17/1982 82003161	24CR0629
-- Miles City Carriage House Historic District , Roughly bounded by Main, N. 9 th Palmer, N. 10th, Orr and N. 13th Sts. and Montana Ave., Miles City 06/07/1991 91000720	24CR0703
-- Miles City East Main Street Residential Historic District , 1600-2315 E. Main St., Miles City 01/10/1990 89002171	24CR0702
-- Miles City Main Street Historic District , Roughly Main Street from Prairie Ave. to Fourth Street, Miles City 07/21/1989 89000808	24CR0701
-- Miles City Steam Laundry , 800 Bridge St. Miles City 07/05/1979 79001400	24CR0628
-- Miles City Waterworks Building and Pumping Plant Park , W of Miles City Pumping Plant Road, Miles City 09/26/1979 79003723	24CR0463
-- Mountain States Telephone and Telegraph Company , 908 Main St., Miles City 07/21/1988 88001118	24CR0675
-- Olive Hotel , 501 Main St., Miles City 10/13/1988 88001117	24CR0676
-- Ursuline Convent of the Sacred Heart , 1411 Leighton Blvd., Miles City 03/05/1992 92000115	24CR0713
-- US Post Office, Miles City Main , 106 N. Seventh St., Miles City 03/14/1986 US Post Offices in Montana, 1900--1941, TR 86000686	24CR0677

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DANIELS COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Daniels County Courthouse**, 213 Main St., Scobey 05/04/1995 95000535

24DN0547

-- **Daniels, Mansfield A., House**, Approximately 2 mi. W of MT 13 and 2 mi.
SW of Scobey, Scobey 06/04/1997 97000503

24DN0005

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DAWSON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Bell Street Bridge , W. Bell St., Glendive 02/03/1988 Glendive MRA 87002517	24DW0290
-- Blackstock Residence , 217 W. Towne, Glendive 02/03/1988 Glendive MRA 87002515	24DW0411
-- First Methodist Episcopal Church , 209 N. Kendrick, Glendive 02/03/1988 Glendive MRA 87002513	24DW0412
-- Glendive City Water Filtration Plant , 420 W. Bell St., Glendive 02/03/1988 Glendive MRA 87002512	24DW0413
-- Glendive Heat, Light and Power Company Power Plant , Clough St. Glendive 02/03/1988 Glendive MRA 87002511	24DW0418
-- Glendive Merrill Avenue Historic District , W side of Merrill Ave. between S. Douglas St. and W. Clement St., E side of Merrill Ave. between W. Towne and W. Clement, Glendive 02/03/1988 Glendive MRA 87002508	24DW0228
➤ Hagan Site, address restricted, Glendive 10/15/1966 NHL 07/19/64	24DW0002
-- Krug, Charles, House , 103 N. Douglas St., Glendive 06/03/1976 2 76001122	24DW0229
-- McCone Residence , 218 W. Towne, Glendive 02/03/1988 Glendive MRA 87002509	24DW0414
-- Northern Pacific Railroad Settling Tanks , Towne and Clough Sts., Glendive 02/03/1988 Glendive MRA 87002507	24DW0415
-- Sacred Heart Church , 316 W. Benham, Glendive 02/03/1988 Glendive MRA 87002504	24DW0416
-- US Post Office , 221 N. Kendrick, Glendive 02/03/1988 Glendive MRA 87002503	24DW0417

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DEER LODGE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Alpine Apartments , 200 Hickory, Anaconda 10/30/1998 98001299 Anaconda MPS	24DL0695
-- Anaconda City Hall , 401 E. Commercial, Anaconda 08/10/1979 79003722	24DL0275
-- Anaconda Commercial Historic District , Roughly bounded by Commercial Ave. Main St., Chestnut St. and E. Park Ave., Anaconda 02/25/1998 Anaconda MPS 98000155	24DL0497
-- Anaconda Copper Mining Company Smoke Stack , Anaconda Copper Smelter, Anaconda 04/09/1987 87000607	24DL0290
-- Anaconda Goosetown Historic District , Roughly bounded by Cedar St., Monroe St., Birch Hill Allotment, and E. Commercial Ave., Anaconda 02/25/1998 Anaconda MPS 98000156	24DL0498
-- Anaconda West Side Historic District , Roughly bounded by Main St., W. Eighth St., W. Park Ave. and Maple St., Anaconda 04/28/1998 Historic and Architectural Properties of Anaconda MPS 98000396	24DL0700
-- Ancient Order of Hibernians Hall , 321-323 E. Commercial, Anaconda 08/10/1979 79003721	24DL0274
-- Barich Block , 416-420 E. Park Ave., Anaconda 01/19/1983 83001058	24DL0257
-- Butte, Anaconda and Pacific Railway Historic District , Right-of-way begins in Butte and travels to Anaconda, generally along course of Silver Bow Creek, Anaconda 10/13/1988 88001111	24DL0211
-- James V Collins house. , 422 W Third St. Anaconda MT 59711 12/18/00	24DL0722
-- Club Moderne , 811 E. Park, Anaconda 08/14/1986 860014988	24DL0286
-- Davidson Building , 301-303 E. Park St., Anaconda 01/19/1983 83001059	24DL0255
-- Deer Lodge County Courthouse , U.S. 10, Anaconda 12/29/1978 78001681	24DL0273

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DEER LODGE COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Eck, Theodore, House , 1217 W. Fourth St., Anaconda 12/30/1998 98001298 Anaconda MPS	24DL0696
-- Furst, John, House , 1403 W. Third St., Anaconda 12/30/1998 98001296 Anaconda MPS	24DL0694
-- Glover Cabin , Washoe Park, Anaconda MT 59711 12/18/00	24DL0723
-- Granite Apartments , 214 E Third Street, Anaconda MT 59711 12/18/00	24DL0721
-- Hearst Free Library , Main and 4th Sts., Anaconda 06/04/1973 7300105	24DL0223
-- Lorraine Apartments , 218 E Third St., Anaconda MT 59711 12/18/00	24DL0718
-- Matheson, Duncan, House , 1300 W. Third St., Anaconda 12/30/1998 Anaconda MPS	24DL0693
-- Methodist Episcopal Church of Anaconda , Jct. of Oak and E. Third Sts., Anaconda 07/29/1994 94000783	24DL0645
-- New Brunswick House , 325 E. Front Street, Anaconda MT 59711 12/18/00	24DL0719
-- Sheehan Boarding House , 412 E Third St., Anaconda MT 59711 12/18/00	24DL0720
-- St. Mark's Episcopal Church , 601 Main St., Anaconda 12/29/1978 78001682	24DL0203
-- US Post Office, Anaconda Main , 218 Main St., Anaconda 03/14/1986 US Post Offices in Montana, 1900--1941, TR 86000677	24DL0261
-- Waddell, George, House , 506 W. Third St., Anaconda 10/30/1998 98001300 Anaconda MPS	24DL0697
-- Washoe Theatre , 305 Main St., Anaconda 04/30/1982 82003162	24DL0254

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-- **Zion Swedish Evangelical Lutheran Church**, 524 Cedar St
Anaconda 98001297 Anaconda MPS

24DL0500

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FALLON COUNTY

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-- **Fallon County Jail**, 723 S. Main, Baker 07/31/98 98000946

24FA1501

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FERGUS COUNTY

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- **Anderson House**, 1015 W. Watson, Lewistown 01/27/1993 Stone Building,
Lewistown MPS 92001770 **24FR0784**
- **Ayers House**, 316 Eighth Ave. S, Lewistown 01/10/1986 Lewistown MRA
86000061 **24FR0643**
- **Bright House**, 707 W. Boulevard, Lewistown 01/27/1993 Stone Buildings in
Lewistown MPS 92001766 **24FR0779**
- **Clark-Cardwell House**, 523 W. Watson, Lewistown 01/10/1986 Lewistown
MRA 86000063 **24FR0641**
- **Culver Studio**, 212 5th Ave., Lewistown 08/11/1980 80002412 **24FR0417**
- **Fergus County High School**, 412 6th Ave. S., Lewistown 06/27/1985
Lewistown MRA 85001409 **24FR0759**
- **Fergus County Improvement Corporation Dormitory**, 216 7th St.,
S., Lewistown 02/01/1980 80002413 **24FR0415**
- **First Presbyterian Church**, 215 Fifth Ave. S, Lewistown 01/10/1986
Lewistown MRA 86000065 **24FR0639**
- **House at 301 Eighth Avenue**, South 301 Eighth Ave. S, Lewistown
01/10/1986 Lewistown MRA 86000066 **24FR0642**
- **House at 324 W. Corcoran**, 324 W. Corcoran, Lewistown 01/27/1993
Stone Buildings in Lewistown MPS 92001773 **24FR0781**
- **House at 618 West Janeaux**, 618 W. Janeaux, Lewistown 01/10/1986
Lewistown MRA 86000062 **24FR0640**
- **House at 805 W. Watson**, 805 W. Watson, Lewistown 01/27/1993
Stone Buildings in Lewistown MPS 92001767 **24FR787**
- **House at 809 W. Watson**, 809 W. Watson, Lewistown 01/27/1993
Stone Buildings in Lewistown MPS 92001768 **24FR0786**

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-- House at 813 W. Watson , Lewistown 01/27/1993 Stone Buildings in Lewistown MPS 92001769	24FR0785
-- Huntoon Residence , 722 W. Water, Lewistown 06/27/1985 Lewistown 85001408	24FR0758
-- Lewis House , 702 W. Boulevard, Lewistown 01/27/1993 Stone Buildings in Lewistown MPS 92001765	24FR0788
-- Lewistown Carnegie Library , 701 W. Main St., Lewistown 08/11/1980 80002411	24FR0004
-- Lewistown Central Business Historic District , Roughly bounded by Washington St., 1st Ave., Janeaux St., and 8th Ave., Lewistown 06/27/1985 Lewistown MRA 85001405	24FR0756
-- Lewistown Courthouse Historic District , Roughly bounded by Washington St., 6th Ave., Main and Broadway Sts., Lewistown 06/27/1985 Lewistown MRA 85001406	24FR0757
-- Lewistown Judith Place Historic District , Roughly bounded by Main St., the alley between Hawthorne and Ridgelawn Sts., Washington St., and Oullette St, Lewistown 05/04/1988 88000465	24FR0228
-- Lewistown Mercantile Company , 220 E. Main, Lewistown 02/03/1986 Lewistown MRA 86000064	24FR0644
-- Lewistown Silk Stocking Historic District , Roughly bounded by 2nd Ave., Boulevard and Washington Sts. and 3rd Ave., Lewistown 06/27/1985 Lewistown MRA 85001407	24FR0227
-- Lewistown Satellite Airfield Historic District , Highway 87 Lewistown vicinity 00000162, 03/08/2000	24FR-----
-- Masonic Temple , 322 W. Broadway St. Lewistown 07/03/1979 79001401	24FR0494
-- Mill House , MT 466, 4.5 mi. SE of Lewistown, along Spring Cr., Lewistown 01/27/1993 Stone Buildings in Lewistown MPS 92001764	24FR0771

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|--|-----------------|
| -- N-Bar Ranch , 15 mi. SW of Grass Range, Grass Range 07/09/1991
91000881 | 24FR0382 |
| -- Rocky Point , 30 mi. S of Landusky in Charles M. Russell National Wildlife,
Landusky 05/21/1975 75001082 | 24FR0310 |
| -- Schroeder Hospital , 502 Fifth Ave. S., Lewistown 01/27/1993 Stone
Buildings in Lewistown MPS 92001771 | 24FR0783 |
| -- St.James Episcopal Church and Parish House , 502 W. Montana St.,
Lewistown 11/16/1978 78001683 | 24FR0418 |
| -- St. Joseph's Hospital , U.S. 87, Lewistown 09/13/1978 78001684 | 24FR0420 |
| -- St. Leo's Catholic Church , 124 W. Broadway, Lewistown 05/06/1982
82003163 | 24FR0419 |
| -- US Post Office and Federal Building , 204 Third Ave. N., Lewistown
03/14/1986 US Post Offices in Montana, 1900--1941, TR 86000684 | 24FR0495 |

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FLATHEAD COUNTY

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-- Adair, W. L., General Mercantile Historic District , on Polebridge Loop Rd. 1/4 mi. E of its intersection with N. Fork Rd., Polebridge 02/06/1986 86000155	24FH0224
-- Alexander and Busey Houses , 106 and 112 Fifth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000869	24FH0679
-- Anderson Style Shop , 222 Main St., Kalispell 08/24/1994 Kalispell MPS 94000870	24FH0680
-- Apgar Fire Lookout (See Glacier National Park)	24FH0379
-- Bader-Jaquette and Westwang Houses and Rental Property , 94000871	24FH0681
-- Beaman House , 230 Fourth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000872	24FH0682
-- Belly River Ranger Station Historic District (See Glacier National Park)	24GL0152
-- Belton Chalets , U.S. 2, West Glacier 11/15/1978 78001685 Amendment to the Great Northern RR Buildings, NHL 05/16/2000	24FH0951
-- Billsborough House , 376 6th Ave. E. N., Kalispell 08/24/1994 Kalispell MPS 94000873	24FH0683
-- Bowman Lake Patrol Cabin (See Glacier National Park)	24FH0377
-- Bowman Lake Road (See Glacier National Park)	24FH0888
-- Boyd's Shop , 227 First St. W., Kalispell 08/24/1994 Kalispell MPS 94000874	24FH0684
-- Brice Apartments , 228 2nd Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000875	24FH0685
-- Bull Head Lodge and Studio (See Glacier National Park)	24F0234

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- | | |
|---|-----------------|
| -- Cattle Queen Snowshoe Cabin , McDonald Sub-district, West Glacier vicinity, 07/01/1999 99000778 | 24FH0922 |
| -- City Water Department , 336 First Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000876 | 24FH0686 |
| -- Coal Creek Patrol Cabin , US 2, West Glacier vicinity, 07/01/1999 99000774 | 24FH0923 |
| -- Conrad, Charles E., Mansion , 313 6th Ave., E. Kalispell 02/20/1975 75001083 | 24FH0095 |
| -- Continental Oil Company Filling Station , 35 First Ave. N., Kalispell 08/24/1994 Kalispell MPS 94000877 | 24FH0687 |
| -- Continental Oil Company Warehouse and Garage , 51 First Ave. W. North Kalispell 08/24/1994 Kalispell MPS 94000878 | 24FH0688 |
| -- Cornelius Hedges Elementary School , 827 4th Ave. East, Kalispell 06/29/1989 89000765 | 24FH0461 |
| -- Dean, A. J., House , 244 Woodland Ave., Kalispell 08/11/1980 80002415 | 24FH0235 |
| -- Equity Supply Company Elevator and Creamery , 50 First Ave. W. North Kalispell 08/24/1994 Kalispell MPS 94000881 | 24FH0689 |
| -- Federal Building , 247 First Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000882 | 24FH0690 |
| -- Ferguson House , 320 Fourth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000883 | 24FH0691 |
| -- Fielding Snowshoe Patrol Cabin (See Glacier National Park) | 24FH0380 |
| -- Fish Creek Bay Boathouse (See Glacier National Park) | 24FH0891 |

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-- Fisher House , 441 Second St. W., Kalispell 08/25/1994 Kalispell MPS 94000884	24FH0692
-- Flathead Wholesale Grocery , 5 First Ave. E., Kalispell 08/22/1994 Kalispell MPS 94000885	24FH0693
-- Ford Creek Patrol Cabin (See Glacier National Park)	24FH0381
-- Gay, Edward, House , 236 Fifth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000886	24FH0694
-- Gibson-Lebert House , 461 E. California St., Kalispell 08/24/1994 Kalispell MPS 94000887	24FH0695
-- Going-to-the-Sun Road (See Glacier National Park)	24FH0161
-- Graham House , 825 6th Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000888	24FH0696
-- Granite Park Chalet (See Glacier National Park)	24FH0160
-- Great Northern Railway Buildings (See Glacier National Park)	Theme
-- Great Northern Railway Depot , 15 Depot Loop, Kalispell 08/24/1994 Kalispell MPS 94000889	24FH0697
-- Great Northern Railway Passenger and Freight Depot and Division Office , , Whitefish, 07/11/2002, 02000766	24FH
-- Gregg-Moses House , 27 8th Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000890	24FH0698
-- Gunsight Pass Shelter (See Glacier National Park)	24FH0402
-- Harrison Lake Patrol Cabin , US 2, Glacier National Park vicinity 01000116, 02/16/2001	24GL1033
-- Headquarters Historic District (See Glacier National Park)	24FH0889

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-- Heaven's Peak Fire Lookout (See Glacier National Park)	24FH0896
-- Heller Building , 140 Main St., Kalispell 03/22/1991 91000332	24FH0452
-- Hodgson House , 314 9th Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000891	24FH0699
-- Hornet Lookout , Hornet Mountain, Flathead National Forest 08/19/1983 83001061	24FH0025
-- Hotel Norden , 24 First Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000892	24FH0700
-- Houtz House , 822 Fifth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000893	24FH0701
-- Huckleberry Fire Outlook (See Glacier National Park)	24FH0401
-- Izaak Walton Inn , off US 2 adjacent to RR in Essex, Essex 10/18/1985 85003235	24FH0233
-- Johnson-Lee House , 651 2nd Ave. W., N. Kalispell 08/24/1994 Kalispell MPS 94000894	24FH0702
-- Kalispell-American Laundry , 121 First Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000895	24FH0703
-- Kalispell Courthouse Historic District , 500-800 blocks of Main St., Kalispell 08/24/1994 Kalispell MPS 94000879	24FH0678
-- Kalispell East Side Historic District , Roughly bounded by Central St. E., Woodland Park, Woodland Ave., 13th St. E. and 1st Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000880	24FH0675
-- Kalispell West Side Historic District -----	24FH0676
-- Kalispell Flour Mill , 506 W. Center St., Kalispell 08/24/1994 Kalispell MPS 94000896	24FH0704

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-- Kalispell Main Street Commercial Historic District , 34-343 Main St. and 116-142 1st Ave. E., Kalispell 08/24/1994 Kalispell MPS 94000904	24FH0677
-- Keith, Harry C., House , 538 Fifth Ave. E. Kalispell 07/16/1987 87001198	24FH0365
-- Kerr House , 136 Fifth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000899	24FH0707
-- Kintla Lake Ranger Station (See Glacier National Park)	24FH0382
-- Kishenehn Ranger Station Historic District (See Glacier National Park)	24FH0383
-- Lake McDonald Lodge Historic District, aka Lewis Glacier Hotel (See Glacier National Park)	24FH0092
-- Leibig House , 396 Fourth Ave. E. N., Kalispell 08/24/1994 Kalispell MPS 94000900	24FH0708
-- Lewis Glacier Hotel, aka Lake McDonald Lodge (See Glacier National Park)	24FH0092
-- Lincoln Creek Snowshoe Cabin , US 2, Glacier National Park, West Glacier vicinity, 01000037, Glacier National Park MPS, 02/02/2001	24FH
-- Logan Creek Patrol (See Glacier National Park)	24FH0384
-- Logging Creek Ranger Station Historic District (See Glacier National Park)	24FH385
-- Loneman Fire Lookout (See Glacier National Park)	24FH0386
-- Long House , 393 8th Ave. E. N., Kalispell 08/24/1994 Kalispell MPS 94000901	24FH0709
-- Lower Logging Lake Snowshoe Cabin and Boathouse , (See Glacier National Park)	24FH0894
-- Lower Nyack Snowshoe Cabin , (See Glacier National Park)	24FH0400

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-- Lower Park Creek Patrol Cabin , (See Glacier National Park)	24FH0388
-- McCarthy Homestead Cabin , (See Glacier National Park)	24FH0331
-- McCarthy, Margaret, Homestead , (See Glacier National Park)	24FH0330
-- McGee House , 454 First Ave. E., N. Kalispell 08/24/1994 Kalispell MPS 94000903	24FH0710
-- McMannamy House and Rental Properties , 1020 5th Ave. W., 1004, 1012 and 1020 -1/2 5th Ave. W., and 508 and 516 10th St. W., Kalispell 08/24/1994 Kalispell MPS 94000902	24FH0711
-- Miller, J. K., Homestead , (See Glacier National Park)	24FH0733
-- Mount Brown Fire Lookout , (See Glacier National Park)	24FH0389
-- North Fork Road , (See Glacier National Park)	24FH0897
-- Norwegian Evangelical Lutheran Church and Parsonage , 344 and 332 Fifth Ave W., Kalispell, 08/17/1994, Kalispell MPS 94000905	24FH0712
-- Numa Ridge Fire Lookout (See Glacier National Park)	24FH0390
-- Nyack Ranger Station Historic District , (See Glacier National Park)	24FH0378
-- O'Neil Lumber Company Office , 424 Main St., Kalispell 08/24/1994 Kalispell MPS 94000906	24FH0713
-- Pass Creek Snowshoe Cabin , (See Glacier National Park)	24FH0895
-- Polebridge Ranger Station Historic District , (See Glacier National Park)	24FH0391
-- Polebridge to Numa Ridge Phoneline , (See Glacier National Park)	24FH0893

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-- Ptarmigan Tunnel , (see Glacier National Park)	24GL0147
-- Quartz Lake Patrol Cabin , (see Glacier National Park)	24FH0399
-- Raftery, William, Homestead , Glacier National Park, Big Prairie 07/21/1988 Settlement on the North Fork of the Flathead River, Glacier National Park TR 88001099 (See Glacier National Park)	24FH0336
-- Reid-Kent House , 246 8th Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000907	24FH0714
-- Ringleberg, Cornelius, House 1028 Third Ave. W. Kalispell 01/22/1987 86003673	24FH0358
-- Rogers House , 380 Fifth Ave. E. N., Kalispell 08/24/1994 Kalispell MPS 94000908	24FH0715
-- Roose-Eckelberry House , 146 Third Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000909	24FH0716
-- Russell School , 227 W. Nevada St., Kalispell 08/24/1994 Kalispell MPS 94000910	24FH0717
-- Sauser-Mercord Building , 223-240 Main St., Kalispell 08/24/1994 Kalispell MPS 94000911	24FH0718
-- Scalplock Mountain Fire Lookout , (See Glacier National Park)	24FH0392
-- Scandinavian Methodist Church , 203 Fifth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000912	24FH0719
-- Schoenberger, Anton, Homestead , (See Glacier National Park)	24FH0340
-- Schoenberger, Charlie, Homestead , (See Glacier National Park)	24FH0341
-- Scott-Forhan House , 326 Fourth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000913	24FH0720
-- Sherburne Ranger Station Historic District , (See Glacier National Park)	24GL0146

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-- Scott-Forhan House , 326 Fourth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000913	24FH0720
-- Sherburne Ranger Station Historic District , (See Glacier National Park)	24GL0146
-- Skyland Camp-Bowman Lake Ranger Station , (See Glacier National Park)	24FH0377
-- Slide Lake-Otatso Creek Patrol Cabin and Woodshed , (Glacier Park)	24GL0145
-- Smith House , 476 Fourth Ave. E., N. Kalispell 08/24/1994 Kalispell MPS 94000915	24FH0722
-- Snyder House , 514 8th Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000916	24FH0723
-- Soldiers' Home Historic District , Veterans Dr., Columbia Falls 04/21/1994 94000385	24FH0356
-- Sperry Chalets , (See Glacier National Park)	24FH0093
-- St. Richard's Church , 505 W. 4th Ave., Columbia Falls 03/19/1980 80002414	24FH0221
-- Stillwater Ranger Station Historic District , U.S. 93, Olney 07/08/1981 81000340	24FH0162
-- Swan River Community Hall , 115 Swan River Rd, Swan River Listed 5/30/02, 02000567	24FH-----
-- Swiftcurrent Fire Lookout , (See Glacier National Park)	24GL0153
-- Swiftcurrent Ranger Station Historic District , (See Glacier National Park)	24GL154
-- Taylor, Ray E., House 900 S. Baker Ave., Whitefish 08/10/1990 90001204	24FH0449
-- Thibodeau Electric Shop , 313 2nd Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000917	24FH0724

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-- Thierwechter House , 305 Fourth Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000918	24FH0725
-- Upper Kintla Lake Patrol Cabin , (See Glacier National Park)	24FH0394
-- Upper Lake McDonald Ranger Station Historic District , (See Glacier National Park)	24FH0395
-- Upper Logging Lake Snowshoe Cabin , (See Glacier National Park)	24FH0892
-- Upper Nyack Snowshoe Cabin , (See Glacier National Park)	24FH0403
-- Upper Park Creek Patrol Cabin , (See Glacier National Park)	24FH0398
-- Vance Lodge, Polebridge Loop Rd. N side, about 0.5 mi. NW of Polebridge, MT Polebridge 12/29/1994 94001505	24FH0742
-- Waggener & Campbell Funeral Home , 228 2nd St. W., Kalispell 08/24/1994 Kalispell MPS 94000919	24FH0726
-- Walker House , 122 First Ave. W., Kalispell 08/24/1994 Kalispell MPS 94000920	24FH0727
-- Walsh's, Johnnie, Guest Lodge , (See Glacier National Park)	24FH0347
-- Walsh, Johnnie, Homestead , (See Glacier National Park,)	24FH0348
-- Walsh, Thomas J., Lodge , (See Glacier National Park)	24FH0901
-- Walton Ranger Station Historic District , (See Glacier National Park)	24FH0397
-- West Entrance Station , (See Glacier National Park)	24FH0890
-- Wheeler, Burton and Lulu, Cabin , (See Glacier National Park)	24FH0909
-- Whitefish Depot , 500 Depot Street, Whitefish MT, 7/11/2002	24FH-----
-- Woll House , 905 Fourth Av. W., Kalispell 08/24/1994 Kalispell MPS 94000922	24FH0728

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-- **Wurtz Homestead**, N. Fork Rd., 2 mi. N of Ford, Flathead National
Forest, Polebridge 06/19/1996 96000661

24FH0857

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-- Adams Block , 123 Main St., Three Forks, 05/20/1999 99000597	24GA1398
-- Airway Radio Station , Pogreba Field, Three Forks Airport, Three Forks vicinity 11/05/1998 98001340	24GA1501
-- Anderson School , E of Gallatin Gateway, Gallatin Gateway 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000354	24GA0792
-- Barnett, R. T. and Company Building , 13 E. Main St., Bozeman 12/01/1980 80002416	24GA0715
-- Bartlett, Jack, House , 8 W. Harrison, Bozeman, 00000046 02/04/2000	24GA1520
-- Beall Park Community Center , 409 N. Bozeman, Bozeman 10/23/1987 Bozeman MRA 87001807	24GA0933
-- Belgrade City Hall and Jail , Broadway at Northern Pacific Blvd. Belgrade 10/25/1982 82000592	24GA0768
-- Big Horn Gun , Gallatin County	24GA1519
-- Blackmore Apartments , 120 S. Black, St., Bozeman 07/07/1983 83001062	24GA0709
-- Bohart House , 10 N. Church, Bozeman 10/23/1987 Bozeman MRA 87001810	24GA0936
-- Bozeman Armory , 24 W. Mendenhall, Bozeman 10/22/1987 Bozeman MRA 87001800	24GA0921

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-- Bozeman Bon Ton Historic District , Roughly bounded by Olive St., Willson Ave. Cleveland St., & Fourth Ave., Bozeman 10/23/1987 Bozeman MRA 87001816	24GA0954
-- Bozeman Brewery Historic District , 700-800 N. Wallace Ave. Bozeman 10/23/1987 Bozeman MRA 87001844	24GA0956
-- Bozeman Carnegie Library , 35 N. Bozeman Ave., Bozeman 02/02/1979 79001402	24GA0744
-- Bozeman Cooper Park Historic District , 200-700 blks., S. Fifth, Sixth, Seventh, Eighth, & Cross Sts., Bozeman 10/23/1987 Bozeman MRA 87001845	24GA0953
-- Bozeman Lindley Place Historic District , 200-300 Lindley Pl. Bozeman 10/23/1987 Bozeman MRA 87001842	24GA0957
-- Bozeman Main Street Historic District , 100 blk. W. Main-300 blk. E. Main, Bozeman 12/21/1987 Bozeman MRA 87001848	24GA0952
-- Bozeman North Tracy Avenue Historic District , 300-500 blks., N. Tracy Ave., Bozeman & Montana, Bozeman 10/23/1987 Bozeman MRA 87001846	24GA0951
-- Bozeman National Fish Hatchery , 4050 Bridger Canyon Rd., Bozeman 01/06/1982 83001063	24GA0710
-- Bozeman Sheet Metal Works , 26 S. Grand, Bozeman MRA 87001836	24GA0920
-- Bozeman South Tracy-South Black Historic District , 200-600 blks of S. Tracy & S. Black Aves., Bozeman 12/21/1987 Bozeman MRA 87001840	24GA0955
-- Bozeman South Tracy Avenue Historic District , 802-824 S. Tracy Ave. Bozeman 10/23/1987 Bozeman MRA 87001847	24GA0769

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| -- Bozeman South Willson Historic District , Willson Ave. between Curtiss and Arthur Sts., Bozeman 12/18/1978 78001687 | 24GA0717 |
| -- Bozeman YMCA , 6 W. Babcock, Bozeman 10/23/1987 Bozeman MRA 87001819 | 24GA0926 |
| -- Brandenburg House , 122 W. Lamme, Bozeman 10/23/1987 Bozeman MRA 87001804 | 24GA0931 |
| -- Busch House , 224 N. Church, Bozeman 10/23/1987 Bozeman MRA 87001805 | 24GA0935 |
| -- Buttelman Ranch , Address Restricted, Willow Creek 04/19/1993 Willow Creek Area MPS 93000309 | 24GA1038 |
| -- Colburn House , 607 W. Lamme, Bozeman 10/23/1987 Bozeman MRA 87001813 | 24GA0930 |
| -- Cottonwood School , SE of Gallatin Gateway, Gallatin Gateway 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000356 | 24GA0794 |
| -- Crail Ranch Buildings , Meadow Village, Gallatin Gateway 04/15/1982 82003167 | 24GA0716 |
| -- Dokken-Nelson Funeral Home , 113 S. Willson, Bozeman 12/21/1987 Bozeman MRA 87001833 | 24GA0923 |
| -- Dry Creek School , E of Manhattan, Manhattan 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000360 | 24GA0790 |
| -- Eagle's Store , 3 Canyon St., West Yellowstone 11/06/1986 West Yellowstone MRA 86002957 | 24GA0767 |
| -- Emerson School , 111 S. Grand Ave., Bozeman 08/10/1990 Bozeman MRA 90001212 | 24GA0847 |
| -- First Baptist Church , 120 S. Grand, Bozeman 10/23/1987 Bozeman MRA 87001803 | 24GA0958 |

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|--|-----------------|
| -- First Presbyterian Church , 26 W. Babcock, Bozeman
12/21/1987 Bozeman MRA 87001820 | 24GA0925 |
| -- Fisher, Burr, House , 712 S. Willson Ave., Bozeman 03/28/1985
85000643 | 24GA0769 |
| -- Flaming Arrow Lodge , 15521 Bridger Canyon Rd., Bozeman
07/29/1994 94000784 | 24GA1075 |
| -- Flaming Arrow Ranch House and Office , 15325 Bridger
Canyon Rd. Bozeman 03/12/1998 98000229 | 24GA1394 |
| -- Gallatin County Courthouse , 301 W. Main, Bozeman
12/21/1987 Bozeman MRA 87001794 | 24GA0916 |
| -- Gallatin County High School , 404 W. Main, Bozeman
01/22/1988 Bozeman MRA 87002309 | 24GA0949 |
| -- Gallatin County Jail , 317 W. Main St., Bozeman 01/19/1983
83001064 | 24GA0714 |
| -- Gallatin Gateway Inn , U.S.191 Gallatin Gateway 01/24/1980
80002417 | 24GA0746 |
| -- Gallatin Valley Seed Company , 209 S. Wallace, Bozeman
10/23/1987 Bozeman MRA 87001830 | 24GA0943 |
| -- Gifford House , 112 S. Grand, Bozeman 10/23/1987 Bozeman
MRA 87001802 | 24GA0922 |
| -- Graf Building , 219-221 W. Arthur, Bozeman 10/22/1987
Bozeman MRA 87001811 | 24GA0940 |
| -- Green Ranch , Address Restricted, Willow Creek 04/19/1993
Willow Creek Area MPS 93000310 | 24GA1040 |
| -- Green, Jesse R., Homestead , 6 mi. NE of Trident, Trident
01/21/1992 91001939 | 24GA0962 |

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|--|-----------------|
| -- Hamill Apartments , 427 E. Main, Bozeman 10/23/1987 Bozeman MRA 87001817 | 24GA0928 |
| -- Hamill House , 205 S. Church, Bozeman 10/23/1987 Bozeman MRA 87001814 | 24GA0938 |
| -- Harris House , 502 W. Mendenhall, Bozeman 01/22/1988 Bozeman MRA 87002310 | 24GA0944 |
| -- Hines House , 420 W. College, Bozeman 01/22/1988 Bozeman MRA 87002311 | 24GA0948 |
| -- Holy Rosary Church Rectory , 220 W. Main, Bozeman 10/23/1987 Bozeman MRA 87001801 | 24GA0918 |
| -- Hotel Baxter , 105 W. Main St., Bozeman 04/19/1984 84002469 | 24GA0739 |
| -- House at 22 West Lamme , 22 W. Lamme, Bozeman 10/23/1987 Bozeman MRA 87001806 | 24GA0959 |
| -- House at 714 North Tracy , 714 N. Tracy, Bozeman 01/22/1988 Bozeman MRA 87002315 | 24GA0946 |
| -- House at 818 South Eighth , 818 S. Eighth, Bozeman 01/22/1988 Bozeman MRA 87002318 | 24GA0950 |
| -- Johnson House , 506 N. Bozeman, Bozeman 01/22/1988 Bozeman MRA 87002321 | 24GA0945 |
| -- Kennedy Building , 127 Yellowstone Ave., West Yellowstone 05/13/1983 West Yellowstone MRA 83001065 | 24GA1397 |
| -- Ketterer, Emil, House , 35 N. Grand Ave., Bozeman 03/31/1983 83001066 | 24GA0711 |
| -- Kolble House , 716 S. Black, Bozeman 10/23/1987 Bozeman MRA 87001812 | 24GA0941 |

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- | | |
|---|------------------|
| -- Lewis, Samuel, House , 308 S. Bozeman Ave., Bozeman, Gallatin Co.,
99000342, 03/18/1999 | 24GA1502 |
| -- Litening Gas , 424 E. Main, Bozeman 10/22/1987 Bozeman MRA
87001843 | 24GA0929 |
| -- Little Bear School , Bear Creek Rd., Gallatin Gateway 04/15/1982
One Room Schoolhouses of Gallatin County TR 82003168 | 24GA0791 |
| -- Lower Bridger School , E of Bozeman, Bozeman 07/21/1981 One Room
Schoolhouses of Gallatin County TR 81000347 | 24GA0789 |
| -- Lower Willow Creek Rural Historic Landscape District ,
Address Restricted, Willow Creek 04/19/1993 Willow Creek Area MPS
93000311 | 24GA1039 |
| -- Lundwell, Charles, Building , 123-125 W Main St., Bozeman, 00001611
01/10/2001 | 24GA----- |
| -- Madison Buffalo Jump State Monument , 7 mi. S of Logan , Logan
04/28/1970 70000356 | 24GA0314 |
| -- Madison Hotel and Café , 137 Yellowstone Ave., West Yellowstone
05/13/1983 West Yellowstone MRA 83001 | 24GA1396 |
| -- Malmborg School , E of Bozeman, Bozeman 07/21/1981 One Room
Schoolhouses of Gallatin County TR 81000349 | 24GA0795 |
| -- Maudlow School , Milwaukee Rd., Belgrade 08/23/1982 One Room
Schoolhouses of Gallatin County TR 82003164 | 24GA0799 |
| -- Methodist Episcopal Church , 121 S. Willson, Bozeman 10/23/1987
Bozeman MRA 87001839 | 24GA0924 |
| -- Methodist Episcopal Church , 116 Cedar St., Three Forks, 00001566
12/28/2000 | 24GA0924 |
| -- MISCO Grain Elevator , 700 N. Wallace, Bozeman 10/23/1987 Bozeman
MRA 87001831 | 24GA0937 |

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-- Newman House , 216 N. Church, Bozeman 10/23/1987 Bozeman MRA 87001835	24GA0934
-- Northern Pacific-Story Mill Historic District , Roughly bounded by the Northern Pacific RR right-of-way and the Story Mill spur line from Wye to Bridger Canyon Rd., Bozeman 05/10/1996 96000479	24GA1100
-- Panton House , 801 S. Seventh, Bozeman 10/23/1987 Bozeman MRA 87001828	24GA0939
-- Pass Creek School , NE of Belgrade, Belgrade 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000341	24GA0807
-- Peterson House , 216 N. Wallace, Bozeman 01/22/1988 Bozeman MRA 87002350	24GA0947
-- Peterson Place , Address Restricted, Willow Creek 04/19/1993 Willow Creek Area MPS 93000308	24GA1041
-- Pine Butte School , W of Bozeman, Bozeman 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000351	24GA0810
-- Quaw, Thomas, House , 5 Central Ave., Belgrade 03/04/1991 91000217	24GA0391
-- Rea School , W of Bozeman, Bozeman 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000346	24GA0809
-- Reese Creek School , NE of Belgrade, Belgrade 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000342	24GA0804
-- Rouse House , 506 E. Babcock, Bozeman, 10/23/1987 Bozeman MRA 87001832	24GA0942
-- Ruby Theatre , 212 Main St., Three Forks 04/30/1982 82003169	24GA0713
-- Sacajawea Hotel , 5 Main St., Three Forks 01/24/1980 80002418	24GA0745

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(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Sedan School , NE of Belgrade, Belgrade 07/21/1981 One Room Schoolhouse of Gallatin County TR 81000344	24GA0802
-- Spanish Creek School , NW of Gallatin Gateway, Gallatin Gateway 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000358	24GA0801
-- Spieth and Krug Brewery , 238-246 E. Main St., Bozeman 04/19/1984 84002473	24GA0765
-- Spieth Houses , 204 N. Bozeman & 209 E. Lamme, Bozeman 10/23/1987 Bozeman MRA 87001838	24GA0932
-- Springhill School , NE of Belgrade, Belgrade 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000345	24GA0803
-- St. James Episcopal Church and Rectory , 9 W. Olive, Bozeman 10/23/1987 Bozeman MRA 87001841	24GA0927
-- Story Motor Company , 202 W. Main, Bozeman 10/23/1987 Bozeman MRA 87001837	24GA0919
➤ Three Forks of the Missouri, NE of Three Forks on the Missouri River, Missouri Headwaters State Monument, Three Forks 10/15/1966 66000433 NHL 10/09/1960	24GA0212
-- Trident School , S of Trident, Trident 07/21/1981 One Room Schoolhouses of Gallatin County TR 81000364	24GA0796
-- Upper Madison School , Buffalo Jump Rd., Three Forks 01/19/1983 One Room Schoolhouses of Gallatin County TR 83001068	24GA0798
-- West Yellowstone Oregon Shortline Terminus Historic District , Yellowstone Ave., West Yellowstone 04/13/1983 West Yellowstone MRA 83001069	24GA0213

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GARFIELD COUNTY

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-- **Hornaday Camp**, 10 miles S. of MT 200, Sand Springs 03/26/1991
91000298

24GF0362

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GLACIER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
➤ Camp Disappointment, 12 mi. NE of Browning, Browning 10/15/1966 66000434 NHL 05/23/1966	24GL0079
-- Cut Bank Ranger Station Historic District , (See Glacier National Park)	24GL0878
-- East Glacier Ranger Station Historic District , (See Glacier National Park)	24GL051
-- Glacier National Park Tourist Trails , (See Glacier National Park)	24GL0886
-- Goathaunt Bunkhouse , (See Glacier National Park)	24GL0877
➤ Going-to-the-Sun Road, Glacier, Rt. 1, West Glacier 06/16/1983 NHL 83001070	24GL0136
-- Harrison Lake Patrol Cabin , (See Glacier National Park)	24GL1033
-- Holy Family Mission , E of Browning, Browning 06/14/1982 82003170	24GL0080
-- Kootenai Creek Snowshoe Cabin , Flattop Mountain, along Kootenai Creek, St. Mary's vicinity, 07/01/1999 99000776	24GL0929
-- Lee Creek Snowshoe Cabin , (See Glacier National Park)	-----
-- Lincoln Creek Snowshoe Cabin , (See Glacier National Park)	24GL1034
-- Many Glacier Barn and Bunkhouse , (See Glacier National Park)	24GL0880
-- Many Glacier Campground Camptender's Cabin (See Glacier National Park)	24GL0879
-- Many Glacier Hotel Historic District , (See Glacier National Park)	24GL0864
-- Ptarmigan Tunnel , (See Glacier National Park)	24GL0147
-- Rising Sun Auto Camp , (See Glacier National Park)	24GL0881
-- Roes Creek Campground Camptender's Cabin (See Glacier National Park)	24GL0882

-- **Saint Mary Ranger Station**, (See Glacier National Park) **24GL0056**

-- **Sherburne Ranger Station Historic District**, (See Glacier National Park) **24GL0146**

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GLACIER COUNTY (continued)

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-- **St. Mary Utility Area Historic District**, (See Glacier National Park) **24GL0798**

-- **Sun Camp Fireguard Cabin**, (See Glacier National Park) **24GL0930**

-- **Slide Lake**, Otatso Creek Patrol Cabin and Woodshed
(See Glacier National Park) **24GL0145**

-- **Swanson Boathouse**, (See Glacier National Park) **24GL0883**

-- **Swiftcurrent Auto Camp Historic District**, (See Glacier National Park) **24GL0884**

-- **Swiftcurrent Fire Lookout**, (See Glacier National Park) **24GL0153**

-- **Swiftcurrent Ranger Station Historic District**, (See Glacier
National Park) **24GL0154**

-- **Two Medicine Campground Camptender's Cabin**,
(See Glacier National Park) **24GL0885**

-- **Two Medicine General Store**, (See Glacier National Park) **24GL0865**

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GLACIER NATIONAL PARK - FLATHEAD & GLACIER COUNTIES

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- | | |
|--|--|
| <p>-- Apgar Fire Lookout, Near Lake McDonald, West Glacier 12/16/1986
 Glacier National Park MRA 86003695</p> | <p>24FH0379</p> |
| <p>-- Belly River Ranger Station Historic District, Head of Belly River Valley,
 West Glacier 02/14/1986 Glacier National Park MRA 86000329</p> | <p>24GL0152</p> |
| <p>-- Bowman Lake Patrol Cabin, Lower end of Bowman Lake, 1/2 mi
 E of Bowman Lake Ranger Station, West Glacier 02/14/1986
 Glacier National Park MRA 86000340</p> | <p>24FH0377</p> |
| <p>-- Bowman Lake Road, North Fork drainage, between Polebridge and
 Bowman Ranger Stations, Glacier NP, West Glacier 04/04/1996
 Glacier National Park MPS 95001565</p> | <p>24FH0888</p> |
| <p>-- Bull Head Lodge and Studio, Off Going-to-the-Sun-Rd., Apgar
 02/06/1984 84002465</p> | <p>24FH0234</p> |
| <p>-- Cut Bank Ranger Station Historic District, N side Cut Bank Creek,
 Glacier NP, East Glacier 04/04/1996 Glacier National Park MPS
 95001566</p> | <p>24GL0878</p> |
| <p>-- East Glacier Ranger Station Historic District, 3/4 mi. N of East Glacier
 Park on MT 49, West Glacier 12/16/1986 Glacier National Park MRA
 86003696</p> | <p>24GL0151</p> |
| <p>-- Fielding Snowshoe Patrol Cabin, Off US 2, West Glacier 02/14/1986
 Glacier National Park MRA 86000341</p> | <p>24FH0380</p> |
| <p>-- Fish Creek Bay Boathouse, Fish Creek Campground, W shore of Lake
 McDonald Glacier NP, West Glacier 04/04/1996 Glacier National Park
 MPS 95001567</p> | <p>24FH0891</p> |
| <p>-- Ford Creek Patrol Cabin, Rt. 7, West Glacier 02/14/1986 Glacier
 National Park MRA 86000342</p> | <p>24FH0381</p> |
| <p>-- Glacier National Park Tourist Trails, Inside Trail, South Circle,
 North Circle Inside Trail, South Circle and North Circle Trails,
 St. Mary 04/04/1996 Glacier National Park MPS 95001579</p> | <p>24GL0886
 &
 24FH0898</p> |

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-- Goathaunt Bunkhouse , S. end of Waterton Lake, Glacier National Park	24GL0877
➤ Going-to-the-Sun Road, Glacier National Park, West Glacier 02/18/1997 Glacier National Park MPS 97000345 NHL 02/18/1997	24GL0136
-- Granite Park Chalet , Glacier National Park, West Glacier 06/27/1983 83001060 NHL 05/28/87	24FH0160
➤ Great Northern Railway Buildings, Glacier National Park, Glacier National Park 05/28/1987 87001453 NHL 05/28/1987	Theme
-- Harrison Lake Patrol Cabin , US 2, Glacier National Park vicinity, 02/16/2001 01000116	24GL1033
-- Gunsight Pass Shelter , Jct. of Gunsight Pass Trail and the Continental Divide, West Glacier 02/14/1986 Glacier National Park MRA 86000344	24FH0402
-- Headquarters Historic District , E of Glacier Rt. 1 at crossing of Middle Fork of the Flathead R., Glacier NP, West Glacier 04/04/1996 Glacier National Park MPS 95001569	24FH0889
-- Heaven's Peak Fire Lookout , Mount Cannon, West Glacier 12/19/1986 Glacier National Park MRA 86003688	24FH0896
-- Huckleberry Fire Outlook , Summit of Huckleberry Mountain, West Glacier 02/14/1986 Glacier National Park MRA 86000346	24FH0401
-- Kintla Lake Ranger Station , S shore of Kintla Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000332	24FH0382
-- Kishenehn Ranger Station Historic District , 3 mi. S of Canadian-US border near the intersection of the N. fork of the Flathead River and Kishenehn Creek, West Glacier 02/14/1986 Glacier National Park MRA 86000335	24FH0383
➤ Lake McDonald Lodge Historic District, (aka Lewis Glacier Hotel), off Going- to- the-Sun Rd., West Glacier 05/28/1987 87001447 Glacier National Park NHL	24FH0092

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-- Lee Creek Snowshoe Cabin , NE corner of Glacier National Park, GNP 01000203, 03/02/2001	-----
-- Lewis Glacier Hotel , (aka Lake McDonald Lodge), N of West Glacier, West Glacier 05/22/1978 78000280 NHL 05/28/87	24FH0092
-- Lincoln Creek Snowshoe Cabin , US 2, Glacier National Park West Glacier vicinity, 01000037, 01/10/2001	24GL1034
-- Logan Creek Patrol Cabin , E. side of Going-to-the-Sun Hwy. at Logan Creek crossing, West Glacier 02/14/1986 Glacier National Park MRA 86000348	24FH0384
-- Logging Creek Ranger Station Historic District , Glacier Rt. 7 near Logging Creek, West Glacier 12/16/1986 Glacier National Park MRA 86003697	24FH0385
-- Loneman Fire Lookout, Access via Loneman Mountain Trail, West Glacier 02/14/1986 Glacier National Park MRA 86000353	24FH0386
-- Lower Logging Lake Snowshoe Cabin and Boathouse , near foot of Logging Lake, West Glacier 12/16/1986 Glacier National Park MRA 86003692	24FH0894
-- Lower Nyack Snowshoe Cabin , W side of Nyack Creek Trail, West Glacier 02/14/1986 Glacier National Park MRA 86000356	24FH0400
-- Lower Park Creek Patrol Cabin , E side of Park Creek Trail past crossing of Fielding-Coal Creek Trail, West Glacier 12/16/1986 Glacier National Park MRA 86003701	24FH0388
-- McCarthy, Margaret, Homestead , Glacier National Park, Big Prairie 07/21/1988 Settlement on the North Fork of the Flathead River, Glacier National Park TR 88001095	24FH0330
-- McCarthy Homestead Cabins (see Flathead County)	24FH0330

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-- Many Glacier Barn and Bunkhouse , Glacier Rt. 3 at Apikuni Flat, Glacier NP, St. Mary 04/04/1996 Glacier National Park MPS 95001570	24GL0880
-- Many Glacier Campground Camptender's Cabin , Many Glacier, Glacier NP Mary 04/04/1996 Glacier National Park MPS 95001571	24GL0879
-- Many Glacier Hotel Historic District , W of Babb, Babb 09/29/1976 Glacier National Park MRA (AD) 76000173 NHL 05/28/87	24GL0864
-- Miller, J. K., Homestead , Glacier National Park, Big Prairie, 07/21/1988 Settlement on the North Fork of the Flathead River, Glacier National Park TR 88001092	24FH0733
-- Mount Brown Fire Lookout , off Rt. 1 near Snyder Lake, West Glacier 12/16/1986 Glacier National Park MRA 86003693	24FH0389
-- North Fork Road , North Fork drainage, Fish Creek to Kintla Lake, Glacier National Park, West Glacier 04/04/1996 Glacier National Park MPS 95001572	24FH0897
-- Numa Ridge Fire Lookout , near Bowman Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000357	24FH0390
-- Nyack Ranger Station Historic District , Nyack Ranger Station West Glacier 02/14/1986 Glacier National Park MRA 86000359	24FH0378
-- Pass Creek Snowshoe Cabin , Confluence of Waterton River and Pass Creek, West Glacier 12/19/1986 Glacier National Park MRA 86003689	24FH0895
-- Polebridge Ranger Station Historic District , Near the NE end of Henshaw Bridge on Rte. 7, West Glacier 02/14/1986 Glacier National Park MRA 86000337	24FH0391
-- Polebridge to Numa Ridge Phoneline , North Fork drainage, Polebridge to Numa Ridge, Glacier NP, West Glacier 04/04/1996 Glacier National Park MPS 95001573	24FH0893

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-- Ptarmigan Tunnel , N of Ptarmigan Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000360	24GL0147
-- Quartz Lake Patrol Cabin , Foot of Quartz Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000361	24GL0399
-- Rising Sun Auto Camp , 500 ft. N of Going-to-the-Sun Rd. at St. Mary Lake Glacier NP, St. Mary 04/04/1996 Glacier National Park MPS 95001574	24GL0881
-- Roes Creek Campground Camptender's Cabin , N of Going-to-the-Sun Rd. at St. Mary Lake, Glacier NP St. Mary 04/04/1996 Glacier National Park MPS 95001575	24GL0882
-- Saint Mary Ranger Station , E end of Upper Saint Mary Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000367	24GL0056
-- St. Mary Utility Area Historic District , E of St. Mary at Divide Creek Glacier NP St. Mary 04/04/1996 Glacier National Park MPS 95001576	24GL0798
-- Scalplock Mountain Fire Lookout , Accessible by trail connecting to Boundary Trail near Walton Ranger Station, West Glacier 02/14/1986 Glacier National Park MRA 86000363	24FH0392
-- Shoenberger, Anton, Homestead , Glacier National Park, Big Prairie 07/21/1988, Settlement on the North Fork of the Flathead River, Glacier National Park TR 88001094	24FH0340
-- Shoenberger, Charlie, Homestead , Glacier National Park, Big Prairie 07/21/1988 Settlement on the North Fork of the Flathead River, Glacier National Park TR 88001093	24FH0341
-- Sherburne Ranger Station Historic District , Glacier Rt. 3, near Glacier Entrance, West Glacier 12/16/1986 Glacier National Park MRA 86003698	24GL0146
-- Skyland Camp-Bowman Lake Ranger Station , SW shore of Bowman Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000365	24FH0377

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-- Slide Lake-Otatso Creek Patrol Cabin and Woodshed , N side of Otatso Creek, West Glacier 02/14/1986 Glacier National Park MRA 86000370	24GL0145
-- Sperry Chalets , E of West Glacier, West Glacier 08/02/1977 77000115 NHL 05/28/1987	24FH0093
-- Sun Camp Fireguard Cabin , Going- to -the -Sun Road, St Mary's vicinity, 07/01/1999 99000776	24GL0930
-- Swanson Boathouse , E shore of Two Medicine Lake, Glacier NP East Glacier 04/04/1996 Glacier National Park MPS 95001577	24GL0883
-- Swiftcurrent Auto Camp Historic District , W .end of Glacier Rt. 3, Glacier NP Many Glacier 04/04/1996 Glacier National Park MPS 95001578	24GL0884
-- Swiftcurrent Fire Lookout , Near the Continental Garden Wall in vicinity of Swiftcurrent Mountain, West Glacier 12/16/1986 Glacier National Park MRA 86003694	24GL0153
-- Swiftcurrent Ranger Station Historic District , off Rt. 3 near Swiftcurrent Lake, West Glacier 12/19/1986 Glacier National Park MRA 86003690	24GL0154
-- Two Medicine Campground Camptender's Cabin , Two Medicine Lake, Glacier NP, East Glacier 04/04/1996 Glacier National Park MPS 95001580	24GL0885
-- Two Medicine General Store , E shore of Two Medicine Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000372 NHL 05/28/1987	24GL0865
-- Upper Kintla Lake Patrol Cabin , Head of Kintla Lake, West Glacier 02/14/1986 Glacier National Park MRA 86000374	24FH0394
-- Upper Lake McDonald Ranger Station Historic District , N Shore Lake McDonald, West Glacier 12/16/1986 Glacier National Park MRA 86003699	24FH0395

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|---|-----------------|
| -- Walsh, Johnnie, Homestead , Glacier National Park, Big Prairie
07/21/1988 Settlement on the north fork of the Flathead River, Glacier
National Park TR 88001098 | 24FH0348 |
| -- Walsh, Thomas J., Lodge , Upper Lake McDonald, Apgar vicinity
11/12/1998 98001365 Glacier National Park MRA | 24FH0901 |
| -- Walton Ranger Station Historic District , US 2 near Essex, West Glacier
12/16/1986 Glacier National Park MRA 86003700 | 24FH0397 |
| -- West Entrance Station , Going-to-the-Sun Rd., near West Glacier,
Glacier NP, West Glacier 04/04/1996 Glacier National Park MPS 95001581 | 24FH0890 |
| -- Wheeler, Burton and Lulu, Cabin , Lake McDonald, Apgar vicinity
11/27/1998 98001527 Glacier National Park MPS | 24FH0909 |

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GOLDEN VALLEY COUNTY

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- | | |
|---|-----------------|
| -- Grace Lutheran Church of Barber , W of Ryegate, 02/01/1982
82003171 | 24GV0094 |
| -- Sims Garfield Ranch , E of Ryegate, 08/27/1980 80002415 | 24GV0095 |
| -- Slayton Mercantile Co , 23 Main Street, Lavina, MT 00001567, 12/28/2000 | 24GV0159 |

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GRANITE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Anderson Lumber Company , Roughly bounded by Brown, First and Holland Sts., Philipsburg 12/03/1986 Philipsburg, Montana MRA 86002790	24GN0544
-- Doe, M. E., House , Dearborn and Montgomery Sts., Philipsburg 12/03/1986 Philipsburg, Montana MRA 86002788	24GN0543
-- Granite County Jail , Kearney St., Philipsburg 08/27/1980 80002420	24GN0500
-- Granite Miners Union Hall , E of Philipsburg in Deerlodge National Forest, (Granite) Philipsburg 12/19/1974 74001096	24GN0365
-- Granite Superintendent's House , E of Philipsburg in Deerlodge National Forest (Granite), Philipsburg 12/17/1974 74001097	24GN0366
-- Philipsburg Grade School , W of Schnepel St., Philipsburg 12/03/1986 Philipsburg, Montana MRA 86002789	24GN0541
-- Philipsburg Historic District , Roughly bounded by Gamma St. and Cleveland Ave., Montgomery, Madison and Duffy and Cedar and McDonald Sts., Philipsburg 09/30/1986 Philipsburg, Montana MRA 86002791	24GN0546
-- Ringeling House , Caledonian Mining Claim, E of Doe and Morse Addition, Philipsburg 12/03/1986 Philipsburg, Montana MRA 86002787	24GN0542
-- Rock Creek Guard Station (24GN165), W of Philipsburg on Hwy. 348 and the Rock Creek Rd., Philipsburg 07/13/1982 82003172	24GN0165

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HILL COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Carnegie Public Library , 447 Fourth Ave. Havre 07/24/1986 86001934	24HL885
-- Clack, H. Earl, House , 532 Second Ave. Havre 10/24/1985 85003385	24HL360
-- Fort Assinniboine , County Rd. 82nd Ave. West, .5 mi. SE of US 87, Havre 05/31/1989 89000040	24HL329
-- Great North Railroad Station	24HL942
-- Havre Residential Historic District , Roughly bounded by Third St., Seventh Ave. Eleventh St., Fifth Ave., Tenth St., Third Ave., Seventh St. and First Ave., Havre 10/05/1989 89001630	24HL940
-- Heltne Oil Company , 140 First St., Havre 08/16/1994 Roadside Architecture Along US 2 in Montana MPS 94000865	24HL1012
-- Sunset Drive In Theater	24HL1133
-- Too Close For Comfort Site (24HL101) Address Restricted, Havre 12/30/1974 74001098 (aka:WAHKPA CHUON BUFFALO JUMP)	24HL101
-- US Post Office and Courthouse-Havre Main , 306 Third Ave., Havre 03/14/1986 US Post Offices in Montana, 1900--1941, TR 86000682	24HL359
-- Young-Almas House , 419 4th Ave., Havre 10/14/1980 80002421	24HL324

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JEFFERSON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|----------------|
| -- Boulder Hot Springs Hotel , SE of Boulder on MT 281, Boulder
01/12/1979 79001 | 24JF497 |
| -- Child, W. C., Ranch , S of East Helena on SR 518, East Helena
11/23/1977 77000819 | 24JF814 |
| -- Fraternity Hall , Main St., Elkhorn 04/03/1975 75001084 | 24JF477 |
| -- Jefferson County Courthouse , 200 Centennial Ave., Boulder
08/06/1980 80002422 | 24JF809 |
| -- MacHaffie Site (24JF4), Address Restricted, Montana City 04/03/1986
86000619 | 24JF4 |
| -- Montana Deaf and Dumb Asylum , off MT 281, Boulder 05/10/1985
85000994 | 24JF496 |

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JUDITH BASIN COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|----------------|
| -- Judith River Ranger Station , Along the Middle Fork, Judith R.
SW of Utica in Lewis & Clark NF, Utica 04/10/1992 92000333 | 24JT72 |
| -- Meadowbrook Stock Farm , US 87, Hobson 01/13/1992 91001938 | 24JT208 |
| -- Wood Lawn Farm , 5 mi. W of Hobson on Utica Rd. No. 239, Hobson
01/27/1993 92001762 | 24JT194 |

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LAKE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Fort Connah Site , US 93, Post Creek 04/28/1982 82003173	24LA57
-- Kootenai Lodge Historic District , Sunburst Dr., Bigfork 01/17/1984 84002476	24LA65
-- Linderman, Frank Bird, House , Address Restricted, Lake 02/22/1984 84002479	24LA61
-- Polson Feed Mill , 501 Main St., Polson 04/29/1980 80002423	24LA58
-- St. Joseph's Catholic Church , D'Aste Townsite, Moiese vicinity, 99000345, 03/18/1999	24LA1501
-- St. Ignatius Mission , About 0.1 mi. SE of MT 93 in St. Ignatius, 6/19/1973 73001053 St. Ignatius	24LA56
-- Swan Lake Rock House Historic District , Off MT 83, Swan Lake 08/01/1984 84002485	24LA18

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LEWIS AND CLARK COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|-----------------|
| -- Algeria Shrine Temple , Neill and Park Aves., Helena 04/14/1988
88000434 | 24LC878 |
| -- Appleton House No. 13 , 2200 Cannon, Helena 10/25/1982 82000593 | 24LC794 |
| -- Appleton House No. 9 , 1999 Euclid Ave., Helena 11/07/1995 95001264 | 24LC1255 |
| -- Cathedral of Saint Helena , 530 N. Ewing St., Helena 04/30/1980
88000434 | 24LC788 |
| -- Childs Carriage House , 318 E. Sixth Ave., Helena 11/07/1995 95001263 | 24LC1256 |
| -- Crum, William C., House , 535 5th Ave., Helena 05/30/1997 97000502 | 24LC1316 |
| -- Cuthbert, D. H., House , 602 N. Ewing, Helena 05/04/1995 95000536 | 24LC1247 |
| -- Gary Cooper House , 730 Eleventh Avenue, Helena 11/08/2001 | 24LC1709 |
| -- Eagle's Site , Address Restricted, Helena 10/07/1993 Archaeological
Resources of the Upper Missouri River Corridor MPS 93000995 | 24LC1080 |
| -- Evans, Christmas Gift, House , 404 N. Benton Ave., Helena 04/16/1980
80004271 | 24LC793 |
| -- Forestvale Cemetery , 490 Forestvale Rd., Helena 02/21/1990 90000145 | 24LC132 |
| -- Former Montana Executive Mansion , 6th Ave. and Ewing, St. Helena
04/28/1970 70000357 | 24LC710 |
| -- Gilman State Bank , Main St., Gilman 12/01/1983 83003993 | 24LC882 |
| -- Hauser Mansion , 720 Madison Ave, Helena 02/12/1979 79001404 | 24LC696 |
| -- Helena Historic District , Irregular pattern from Hauser Blvd. to
Acropolis and between Garfield and Rodney Sts., Helena 06/02/1972
72000737 | 24LC883 |

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LEWIS AND CLARK COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Helena Historic District (Boundary Increase II) Bounded by E. Sixth N. Davis, Broadway and N. Rodney Sts., Helena 10/07/1993 93001001	24LC883
-- Helena South-Central Historic District Roughly bounded by Broadway S. Davis St., city limits, and S. Warren St., Helena 07/28/1986 86002274	24LC850
-- Helena West Main Street Historic District , 500-600 blocks of W. Main St., Helena 02/22/1996 96000119	24LC1270
-- House of the Good Shepherd Historic District Area , surrounding Junction of 9th Ave. and N. Hoback St., Helena 12/23/1993 93001448	24LC1162
-- Joe and Carrie Hilger Ranch , 20 miles North of Helena 01/30/ 2001 Sleeping Giant Ranch, Lewis and Clark County, Helena	24LC1699
-- Kemna, Herman, House , 635 First St., Helena 08/18/1992 92001056	24LC1101
-- Kleinschmidt, T. H., House , 1823 Highland Ave., Helena 08/06/1980 80004272	24LC792
-- Kluge House , 540 W. Main St., Helena 04/28/1970 70000358	24LC657
-- Lewis & Clark County Hospital (Cooney Home) , Cooney Drive, Helena, 12/04/2002	24LC0407
-- Lincoln Community Hall , MT 200, Lincoln 01/22/1987 86003674	24LC835
-- Lincoln Lodge , Stemple Pass Rd., Lincoln 10/23/1986 86002931	24LC849
-- Mann Gulch Wildfire Historic District , Mann Gulch, tributary of the Missouri River, Helena vicinity, 05/19/1999 99000596	24LC1160
-- Methodist-Episcopal Church of Marysville , 3rd St., Marysville 01/05/1984 84002489	24LC796
-- Missouri River Railroad segment in Lewis and Clark County	24LC1641

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LEWIS AND CLARK COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Mount Helena Historic District , Promontory, roughly bounded by LeGrande Canon Blvd., Last Chance and Grizzly Gulches, and Helena National Forest boundary, Helena 01/09/1997 96001568	24LC1293
-- Montana State Capitol Building , Sixth Avenue and Roberts St. and Montana Avenue, Helena 02/17/1981 81000660	24LC786
-- Montana State Arsenal, Armory and Drill Hall , 1100 N Main, Helena 02000048, Listed 02/14/2002	24LC0785
-- Murphy, John T., House , 418 N. Benton Ave., Helena 08/01/1984 84002495	24LC791
-- Olsen House , 516 N. Park, Helena 03/22/1991 91000333	24LC501
-- Porter Flats Apartments , 335 N. Ewing St., Helena 01/14/1993 92001761	24LC549
-- Power, C. B., Bungalow , 1.2 mi. N of I -15 and 1 mi. W of US 287, Wolf Creek 04/07/1995 95000380	24LC1245
-- Silver Creek School , N of Helena on Sierra Rd., Helena 08/11/1980 80004273	24LC787
-- Silver King Ranch , Roughly 15 mi. NE of Lincoln in Helena NF, Lincoln 03/10/1992 92000114	24LC1084
-- Stearns Hall , 2 mi. N of Jct. of MT 200 and Hwy. 434, Wolf Creek 04/07/1995 95000382	24LC1244
-- Stedman Foundry and Machine Company , 2650 Euclid Ave, Helena 04/04/1996 96000370	24LC1273
-- Summit Lodge , 30 mi. NW of Helena in Helena National Forest, Helena 05/17/1990, 90000723	24LC910
-- Temple Emanu-El 515 N Ewing Street, Helena MT 59601, 07/11/2002, 02000724	-----

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(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Thomas P. Regan Cabin , MacDonald Pass vicinity, Helena	24LC1607
-- Wassweiler Hotel and Bath Houses , W of Helena on U.S. 12, Helena 08/01/1978, 78001688	24LC842
-- Western Clay Manufacturing Company , 2915 Country Club Rd., Helena 05/09/1995, 86001052	24LC789
-- Wick-Seiler Residence 729 11 th Avenue, Helena 00000873, 08/02/2000 Helena	24LC1645
-- Wolf Creek Hotel , Jct. of Main St. and Bissonnett St., Wolf Creek 11/07/1997, 97001381	24LC1326
-- Young Women's Christian Association , (Independent), 501 N. Park St., Helena 12/27/1984, 84000569	24LC790

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LIBERTY COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **First Episcopal Methodist Church of Chester**, Jct. of Second St. and
Madison, Chester 08/29/1997 97000974

24LT44

-- **First State Bank of Chester**, Jct. of Washington Ave. and First St. E.,
Chester 08/29/1997 97000975

24LT148

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LINCOLN COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|----------------|
| -- Ant Flat Ranger Station , Forest Service, Rd. 36, 2 mi S of Fortine,
Kootenai NF, Fortine 12/30/1996 94001021 | 24LN819 |
| -- Eureka Community Hall , Cliff St., Eureka 10/18/1985 85003236 | 24LN777 |
| -- Farmers and Merchants State Bank , 223 Dewey Ave., Eureka
08/31/1995 95001062 | 24LN492 |

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MADISON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Beaverhead Rock-Lewis and Clark Expedition , about 14 mi. NE of Dillon, Dillon 02/11/1970 70000359	24MA259
-- Christ Episcopal Church and Rectory , SW Jct. of Poppleton and Main Sts., Sheridan 01/22/1987 86003672	24MA807
-- Dr Don L. Byam House , Main Street, Nevada City MT, 02000103, 03/01/2002	24MA1926
-- Hutchins Bridge , across Madison River, Cameron vicinity, 99000344 03/18/1999	24MA1774
-- The Finney House , Jct. of Main and California Streets, Nevada City Montana, 02000104, 03/01/2002	24MA1925
-- Madison County Fairgrounds , MT 41, Twin Bridges 08/03/1984 84002500	24MA725
-- O'Brien, William, House , 114 E. Poppleton, Sheridan 10/23/1986 86002933	24MA809
-- Pony Historic District , Town of Pony, SW of Harrison, Pony 08/04/1987 Pony MRA 87001264	24MA927
-- Powder House , 1/2 mi. SE of Pony on Potosi Rd., Pony 08/03/1987 Pony MRA 87001266	24MA828
-- Robbers Roost , 5 mi. N of Alder at MT 387, Alder 01/01/1976 76001124	24MA263
-- Rossiter, H. D. , Building, 115 S. Main St, Sheridan 03/07/1994 94000138	24MA1023
-- Saint Mary of the Assumption , off MT 287, Laurin 10/24/1985 85003380	24MA724
-- Strawberry Mine Historic District , Roughly Bounded by Strawberry Ridge Pony Rd., and Pony Creek, Pony 08/04/1987 Pony MRA 87001265	24MA810
-- Union City , address restricted, Virginia City vicinity, 99000261, 02/26/1999	24MA1773

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MADISON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Virginia City Historic District, Wallace St., Virginia City**
10/15/1966 66000435 NHL 07/04/1961

24MA723

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McCONE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Gladstone Hotel**, 101 Main St., Circle 08/28/1980 80004592

24MC168

-- **Lewis and Clark Bridge**, over the Missouri River, MT 13, Wolf Point
11/24/1997 97001451

24MC438

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MEAGHER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|---|----------------|
| -- Fort Logan and Blockhouse , 17 mi. NW of White Sulphur Springs,
White Sulphur Springs 10/06/1970 70000360 | 24ME253 |
| -- Sherman, Byron R., House , 310 2nd Ave., NE, White Sulphur Springs
09/15/1977 77000820 | 24ME258 |
| -- Union League of America Hall , Crasford St. and Central Ave. S., White
Sulphur Springs 08/20/1998 98001084 | 24ME491 |
| -- Wellman Block , 206 E. Main St., White Sulphur Springs 03/07/1994
94000140 | 24ME345 |

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MINERAL COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Alberton School , 216 Railroad St., Alberton 01/13/1997 Alberton MPS 96001599	24MN269
-- Bestwick's Market , Railroad St., E of jct. with I-90, Alberton 01/13/1997 Alberton MPS 96001600	24MN270
-- Brinks House , 416 Railroad St., Alberton 01/13/1997 Alberton MPS 96001601	24MN272
-- Chadwick House , 320 Railroad St., Alberton 01/13/1997 Alberton MPS 96001602	24MN271
-- DeBorgia Schoolhouse , Thompson Falls & DeBorgia Rd., DeBorgia 12/27/1979 79001405	24MN172
-- Gildersleeve Mine , Lolo National Forest near Superior, 06/26/2002	24MN184
-- Methodist Church of Alberton , 802 Railroad St., Alberton 01/13/1997 Alberton MPS 96001604	24MN273
-- Railroad Depot , 701 Railroad St., Alberton 01/13/1997 Alberton MPS 6001603	24MN268
-- Superior School , River Rd., approximately .25 mi N of US 10, Superior 3/21/1997 97000253	24MN277
-- Thorn House , 140 2nd St., Alberton 01/13/1997 Alberton MPS 96001605	24MN275
-- Wilson House , 114 Adams St., Alberton 01/13/1997 Alberton MPS 96001606	24MN276

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MISSOULA COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Apartment Building at 116 Spruce Street , 116 W. Spruce St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000644	24MO338
-- Atlantic Hotel , 519 N. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000652	24MO334
-- Bellows House , 1637 S. Higgins Ave., Missoula 02/22/1996 96000120	24MO714
-- Belmont Hotel , 430 N. Higgins Ave., Missoula 04/20/1983 83001071	24MO302
-- Bluebird Building , 220-224 N. Higgins Ave., Missoula 08/08/1996 Missoula MPS 96000881	24MO715
-- Brunswick Hotel , 223 Railroad St., Missoula 04/30/1990 Historic Resources in Missoula, 1864 -1940, MPS 90000645	24MO345
-- Camp Paxson Boy Scout Camp , Seeley Lake, Lolo National Forest 03/21/1986 86000584	24MO77
-- Carnegie Public Library , 335 N. Pattee St., Missoula 04/30/1982 82003174	24MO257
-- Christie, Thomas J., House , 401 McLeod Ave., Missoula 03/16/1995 95000251	24MO368
-- Cook Farm , 5185 Old Marshall Grade Rd., Missoula 05/16/1996 96000546	24MO551
-- DeSmet Schoolhouse , 6105 Old Hwy. -10 W. of Missoula 02/28/1991 91000151	24MO138
-- Duncan Block 232--240 N. Higgins Ave., Missoula 10/17/1997 Historic Resources in Missoula, 1864-1940, MPS 90000654	24MO339
-- Florence Hotel , 111 N. Higgins Ave., Missoula 06/18/1992 Missoula MPS 92000782	24MO702

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MISSOULA COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Flynn Farm , W of Missoula on Mullan Rd., Missoula 03/19/1980 80002426	24MO249
-- Forkenbrock Funeral Home , 234 E. Pine St., Missoula 12/27/1984 84000570	24MO247
-- Fort Fizzle Site , 5 mi. W of Lolo, Lolo 07/21/1977 77000821	24MO129
-- Fort Missoula Historic District , Reserve St. and South Ave., Missoula 04/29/1987 87000865	24MO266
-- Garden City Drug , 118 N. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000660	24MO348
-- Gibson, A. J., House , 402 S. 2nd St., Missoula 04/16/1980 80002427	24MO250
-- Gleim Building , 265 W. Front St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000653	24MO351
-- Gleim Building II , 255-257 W. Front St., Missoula 03/09/1995 Missoula MPS 95000143	24MO369
-- Grand Pacific Hotel , 118 W. Alder, Missoula 09/29/1983 83001072	24MO252
-- Hammond Arcade , 101 S. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 9 0000646	24MO346
-- Headquarters Building and Daily Company Annex , 113-119 W. Front St., Missoula 05/17/1996 Missoula MPS 96000547	24MO552
-- Hellgate Lodge 383 BPOE, 120 N. Pattee St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000661	24MO352
-- Herzog, J. M., House , 1210 Toole Ave., Missoula 09/12/1985 85002164	24MO251
-- Higgins Block , 202 N. Higgins Ave., Missoula 10/01/1979 79003720	24MO255

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MISSOULA COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)

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- **Independent Telephone Company Building**, 207 E. Main St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000648 **24MO344**
- **Johnston, John S., House**, 412 W. Alder St., Missoula 08/02/1984 84002502 **24MO253**
- **Keith, John M., House**, 1110 Gerald Ave., Missoula 07/07/1983 83001073 **24MO254**
- **Knowles Building**, 200-210 S. Third St., W. Missoula 04/09/1987 87000608 **24MO263**
- **Labor Temple**, 208 E. Main St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000650 **24MO337**
- **Laird's Lodge Historic District**, N. end of Lindbergh Lake at end of Lindbergh Lake Rd., Seeley Lake 08/17/1990 90001213 **24MO354**
- **Lenox Flats**, 300-306 West Broadway, Missoula County, Missoula 00000874, Missoula 08/08/2000 **24MO571**
- **Lower Rattlesnake Historic District**, roughly bounded by Vene St., Greenough Park, Elm St., and Pierce St., Missoula, 06/10/1999 99000697 **24MO372**
- **Lincoln School**, 1209 Lolo St., Missoula 06/03/1997 97000500 **24MO561**
- **Lolo Trail, from near Lolo, Montana to Weippe Prairie, Idaho NHL 10/09/1960** **24MO104**
- **Lucy Building**, 330 N. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000656 **24MO343**
- **Marsh and Powell Funeral Home**, 224 W. Spruce St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000 **24MO353**

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(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Masonic Lodge , 120-136 E. Broadway Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000649	24MO349
-- McCaffery Furnished Rooms , 501 W. Alder, Missoula MT 59802	24MO790
-- Milwaukee Depot , 250 Station Dr., Missoula 04/30/1982 82003175	24MO256
-- Missoula County Courthouse , 220 W. Broadway, Missoula 09/01/1976 76001125	24MO175
-- Missoula East Pine Street Historic District , Roughly bounded by E. Pine St. Madison St., E. Broadway and Pattee St., Missoula 07/13/1989 89000768	24MO476
-- Missoula Laundry Company , 111 E. Spruce St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000651	24MO336
-- Missoula Mercantile , 114 N. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000647	24MO342
-- Missoula Northside Railroad Historic District , Roughly bounded by Worden Ave., 6th St., I-90, C St. and the Northern Pacific RR tracks, Missoula 05/04/1995 95000532	24MO547
-- Missoula Southside Historic District , Roughly bounded by the Clark Fork River and S.Higgins Ave., S. 6th St. W. and Orange St. Missoula 03/22/1991 91000334	24MO355
-- Model Laundry and Apartments , 131 W. Alder St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000657	24MO335
-- Montgomery Ward , 201 N. Higgins Ave., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000659	24MO347

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MISSOULA COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Northern Pacific Railroad Depot , Railroad and Higgins Ave. Missoula 03/28/1985 85000644	24MO258
-- Palace Hotel , 147 W. Broadway, Missoula 10/25/1982 82000594	24MO301
-- Paxson, Edgar, House , 611 Stephens Ave., Missoula 11/06/1986 86002935	24MO262
-- Potomac School , 220 Potomac Rd., Potomac 03/30/1992 92000244	24MO472
-- Prescott, Clarence R., House , University of Montana, Missoula 09/26/1985 85002515	24MO303
-- Saint John the Baptist Catholic Church , Mullan Rd., Frenchtown 03/27/1986 86000585	24MO238
-- St. Francis Xavier Church , 420 W. Pine St., Missoula 04/28/1982 82003176	24MO259
-- Simons Block , 314 N. Higgins Avenue, Missoula 02/18/2000, Missoula MPS 00000047	24MO780
-- Stark School , Ninemile Rd., Ninemile Valley, Huson 10/12/1995 95001165	24MO370
-- Sterling, Fred T., House , 1310 Gerald Ave., Missoula 07/07/1983 83001074	24MO304
-- Studebaker Building , 216 W. Main St., Missoula 04/17/1997 Missoula MPS 97000355	24MO719
-- Toole, John R., House , 1005 Gerald Ave., Missoula 04/25/1983 83004308	24MO305
➤ Traveler's Rest , 1 mi. S of Lolo near U.S. 93, Lolo 10/15/1966 66000437 NHL 10/09/1960	24MO176

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MISSOULA COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- U.S. Forest Service Remount Depot , 2.4 mi. SW of Huson Huson 04/10/1980 80002425	24MO300
-- U.S. Post Office , 200 E. Broadway St., Missoula 11/30/1979 79001406	24MO306
-- University Apartments , 400-422 Roosevelt Ave., Missoula 03/28/1985 85000645	24MO307
-- University of Montana Historic District , Roughly bounded by Arthur Connell and Beckwith Aves. and the ridge lines of Mt. Sentinel Missoula 10/02/1992 92001284	24MO471
-- Wilma Theatre , 104 S. Higgins Ave., Missoula 12/31/1997 979001407	24MO308
-- Zip Auto , 251 W. Main St., Missoula 04/30/1990 Historic Resources in Missoula, 1864-1940, MPS 90000658	24MO350

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MUSSELSHELL COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **St. Benedict's Catholic School**, 524 First St. W., Roundup
07/21/1988 88001120

24ML229

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PARK COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

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- | | |
|---|-----------------|
| -- Chico Hot Springs , 2 mi. NE of Chico, 3.5 mi. SE of Emigrant, Pray
08/21/1998 98001085 | 24PA1123 |
| -- Cooke City Store , Main St., Cooke City 03/27/1986 86000527 | 24PA737 |
| -- Detention Hospital , 325 E. Gallatin St., Livingston 09/05/1979
Livingston MRA 79001410 | 24PA989 |
| -- Ebert Ranch , U.S. 89, Livingston 09/05/1979 Livingston MRA 79001412 | 24PA992 |
| -- Harvat Ranch , SE of Livingston off U.S. 89, Livingston 09/05/1979
Livingston MRA 79001413 | 24PA993 |
| -- KPRK Radio , E of Livingston off U.S. 89, Livingston 09/05/1979
Livingston MRA 79001414 | 24PA988 |
| -- Krohne Island House , Krohne Island, Livingston 09/05/1979 Livingston
MRA 79001415 | 24PA987 |
| -- Krohne Spring House , 329 S. H St., Livingston 09/05/1979 Livingston
MRA 79001416 | 24PA985 |
| -- Livingston B Street District , B St., Livingston 09/05/1979 Livingston
MRA 79001408 | 24PA776 |
| -- Livingston Commercial District , Roughly bounded by Park, C, Clark,
3rd, and Callendar Sts., Livingston 09/05/1979 Livingston MRA 79001409 | 24PA982 |
| -- Livingston East Side Residential District , Roughly bounded by I, Clark,
E and Park Sts., Livingston 09/05/1979 Livingston MRA 79001411 | 24PA983 |
| -- Livingston West Side Residential District , Roughly bounded by
Sacajawea Park, 7th, Park, and 3rd Sts., Livingston 09/05/1979
Livingston MRA 79001421 | 24PA981 |

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PARK COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- North Entrance Road Historic District , Yellowstone National Park Yellowstone National Park vicinity, 02000529, Listed 5/22/02, (Yellowstone National Park MPS)	24PA497
-- Northside School , 118 W. Chinook St., Livingston 09/05/1979 Livingston MRA 79001417	24PA990
-- Rolfson House , W of Livingston on Bozeman Rd., Livingston 09/05/1979 Livingston MRA 79001418	24PA991
-- Sixty-Three Ranch , Address Restricted, Livingston 12/07/1982 82000595	24PA745
-- Trowbridge Dairy , 207 S. M St., Livingston 09/05/1979 Livingston MRA 79001419	24PA986
-- Urbach Cabin , 9th St. Island, Livingston 09/05/1979 Livingston MRA 79001420	24PA984
-- US Post Office-Livingston Main , 105 N. Second St., Livingston 03/14/1986 US Post Offices in Montana, 1900-1941, TR 86000685	24PA746

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PETROLEUM COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Winnett School**, Jct. of Moulton Ave. and Rowley St., Winnett
04/06/1995 95000383

24PT304

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PHILLIPS COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Clack, H. Earl, Service Station**, US 2, S side, Saco 08/16/1994
Roadside Architecture Along US 2 in Montana MPS 94000863

24PH3171

-- **Phillips County Carnegie Library**, S. 1st St., Malta 08/27/1980
80002428

24PH848

-- **Saco Mercantile**, 201 Taylor St., Saco 12/08/1997 97001452

24PH3415

-- **Sleeping Buffalo Rock**, Jct. of MT 243 and US 2, Saco 05/17/1996
96000548

24PH1002

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PONDERA COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|----------------|
| -- Conrad City Hall , 15 4th Ave., Conrad 02/01/1980 80002429 | 24PN29 |
| -- Froggie's Stopping Place on the Whoop-Up Trail , Address
Restricted, Conrad 04/15/1993 Whoop-Up Trail of Northcentral
Montana MPS 93000277 | 24PN106 |
| -- Two Medicine Fight Site , about 25 mi. SE of Browning,
Browning 10/06/1970 70000361 | 24PN16 |
| -- Valier Public School , 820 3rd St., Valier 03/28/1985 85000646 | 24PN68 |

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POWDER RIVER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Cross Ranch Headquarters**, E of MT 59, roughly 26 mi.
South of Broadus, Broadus 02/23/1996 96000118

24PR1829

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POWELL COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Bielenberg, Nick J., House**, 801 Milwaukee Ave., Deer Lodge
08/10/1979 79003719 **24PW371**

- **Charter Oak Mine and Mill**, Forest Rd. 227 B-1, Helena National
Forest, USDA Forest Service, Elliston vicinity, 01000038, 02/06/2001 **24PW476**

- **Coleman, William E., House**, 500 Missouri Ave., Deer Lodge
05/21/1979 79001422 **24PW372**

- **Deer Lodge American Women's League Chapter House**,
802 Missouri Ave., Deer Lodge 06/14/1982 82003177 **24PW370**

- **Fitzpatrick Ranch Historic District**, NW of Avon, Avon
07/08/1981 81000365 **24PW357**

- **Grant-Kohrs Ranch National Historic Site, edge of Deer Lodge**
Deer Lodge 08/25/1972 72000738 NHL 12/19/1960 **24PW118**

- **Kohrs, William K., Free Memorial Library**, 5th St. and Missouri
Ave., Deer Lodge 05/07/1979 79001423 **24PW224**

- **Montana Territorial and State Prison**, 925 Main St., Deer Lodge
09/03/1976 76001126 **24PW373**

- **Northern Pacific Railroad Completion Site**, 1883, off I-90,
Gold Creek 08/19/1983 83001075 **24PW359**

- **Prison Brickyard Historic District**, Gravel rd. off I-90 1/4 mi.
South of Deer Lodge, Deer Lodge 04/14/1988 88000430 **24PW360**

- **Rialto Theater**, 418 Main St., Deer Lodge 02/19/1998 98000124 **24PW672**

- **Trask Hall**, 703 5th Ave., Deer Lodge 04/30/1982 82003178 **24PW211**

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PRAIRIE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Grandey Elementary School**, off U.S. 10, Terry 11/16/1978
78001689

24PE268

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RAVALLI COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Allison-Reinkeh House , 207 Adirondac St., Hamilton 08/26/1988 Hamilton MRA 88001280	24RA365
-- Alta Ranger Station , S of Conner in Bitterroot National Forest, Conner 12/19/1974 74001099	24RA63
-- Bass Mansion , 216 N. College St., Stevensville 11/14/1978 78001691	24RA85
-- Bean, Daniel V., House , 611 N. Second, Hamilton 08/26/1988 Hamilton MRA 88001288	24RA96
-- Big Creek Lake Site , Address Restricted, Stevensville 05/17/1976 76001127	24RA34
-- Bitter Root Cooperative Creamery , 3730 Eastside Hwy., Stevensville 06/19/1991 Stevensville MPS 91000726	24RA309
-- Blood, Oliver, House , 524 S. First St., Hamilton 08/26/1988 Hamilton MRA 88001279	24RA351
-- Brooks Hotel , off East Side Hwy., Corvallis 11/10/1980 80002430	24RA261
-- Buck, Charles Amos, House , 211 Buck St., Stevensville 06/18/1991 Stevensville MPS 91000727	24RA310
-- Buck, Fred, House , 217 Buck St., Stevensville 06/18/1991 Stevensville MPS 91000729	24RA312
-- Canyon Creek Laboratory of the U.S. Public Health Service , W of Hamilton city limits, Hamilton 10/15/1970 70000362	24RA65
-- Caple, W. T., House , 210 Church St., Stevensville 06/19/1991 Stevensville MPS 91000730	24RA313
-- Clark, Jennie, House , 423 Pine St., Stevensville 06/19/1991 Stevensville MPS 91000731	24RA343

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RAVALLI COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Cochran, William, House , 3713 East Side Hwy., Stevensville 06/19/1991 Stevensville MPS 91000732	24RA314
-- Conway House , 805 S. Fourth St., Hamilton 08/26/1988 Hamilton MRA 88001291	24RA352
-- Cook, Calvin and Maggie, House , 501 Main St., Stevensville 06/19/1991 Stevensville MPS 91000734	24RA316
-- Cook, Wilbur, House , 3717 East Side Hwy., Stevensville 06/19/1991 Stevensville MPS 91000733	24RA315
-- Cramer, Martin, House , 326 Groff La., Stevensville 08/03/1987 87001259	24RA260
-- Daly, Marcus, Memorial Hospital , 211 S. 4th St., Hamilton 12/15/1978 78001690	24RA90
-- Daly Mansion , (see Riverside)	24RA241
-- DeNayer House , 327 Main, Stevensville 07/29/1994 Stevensville MPS 94000782	24RA491
-- Drinkenberg's, F. H., First Home , 701 N. Second, Hamilton 08/26/1988 Hamilton MRA 88001289	24RA353
-- El Capitan Lodge , Access Rd. 1111, N shore of Lake Como, Bitterroot NF Hamilton 11/29/1990 90001792	24RA350
-- Ellis, E. G., House , 801 N. Third, Hamilton 08/26/1988 Hamilton MRA 88001281	24RA354
-- Emhoff House , 401 Church St., Stevensville 06/19/1991 Stevensville MPS 91000736	24RA318
-- Etna School , 2853 Eastside Hwy., Stevensville 05/30/1997 97000504	24RA556

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RAVALLI COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- First Baptist Church , 402 Church, Stevensville 09/03/1991 Stevensville MPS 91000737	24RA319
-- First State Bank, Dowling and Emhoff Buildings , 300-304, 306-308 Main St., Stevensville 06/19/1991 Stevensville MPS 91000738	24RA320
-- Fisher, Joseph, House , 103 College St., Stevensville 06/19/1991 Stevensville MPS 91000739	24RA321
-- Fort Owen , about 0.5 mi. NW of Stevensville, Stevensville 10/06/1970 70000363	24RA148
-- Foust, Perry, House , 401 Mission St., Stevensville 06/19/1991 Stevensville MPS 91000740	24RA322
-- Foye Rental Houses , 819 and 821 N. Fourth, Hamilton 08/26/1988 Hamilton MRA 88001292	24RA356
-- Fulton, Charles, House , 377 Fifth St., Stevensville 06/19/1991 Stevensville MPS 91000742	24RA324
-- Gavin House , 219 College St., Stevensville 06/19/1991 Stevensville MPS 91000743	24RA325
-- Gill, Sherman, House , 605 N. Third, Hamilton 08/26/1988 Hamilton MRA 88001282	24RA355
-- Gleason Building , 200-202 Main St., Stevensville 06/19/1991 Stevensville MPS 91000744	24RA326
-- Goff House , 115 N. Fifth, Hamilton 08/26/1988 Hamilton MRA 88001283	24RA357
-- Gordon House , 806 S. Fourth, Hamilton 08/26/1988 Hamilton MRA 88001294	24RA358
-- Granke, Charles, House , 406 S. Seventh St., Hamilton 08/26/1988 Hamilton MRA 88001278	24RA359

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RAVALLI COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Hamilton Commercial Historic District , Main, N. Second, South Second, South Third, and State Sts., Hamilton 09/01/1988 Hamilton MRA 88001273	24RA371
-- Hamilton Southside Residential Historic District , South First, South Second, South Third, South Fourth, and South Fifth Streets, Hamilton 09/01/1988 Hamilton MRA 88001272	24RA372
-- Hamilton Town Hall , 175 S. 3rd St., Hamilton 04/21/1980 80002431	24RA58
-- Harrington, Rose, House , 3709 East Side Hwy., Stevensville 06/19/1991 Stevensville MPS 91000745	24RA327
-- Hoffman, Charles, House , 807 S. Third, Hamilton 08/26/1988 Hamilton MRA 88001277	24RA360
-- Howe, John G., House , 215 Park Ave., Stevensville 06/18/1991 Stevensville MPS 91000746	24RA328
-- IOOF Hall , 217-219 Main St., Stevensville 06/19/1991 Stevensville MPS 91000747	24RA329
-- Lagerquist, John, House , 701 N. Fourth St., Hamilton 08/26/1988 Hamilton MRA 88001284	24RA361
-- Lancaster House , 407 Third St., Stevensville 06/19/1991 Stevensville MPS 91000748	24RA330
-- Landram, John A., House , 113 College St., Stevensville 03/14/1996 Stevensville MPS 91000749	24RA331
-- Lockridge House , 301 Mission St., Stevensville 06/19/1991 Stevensville MPS 91000750	24RA332
-- Lost Horse Fireman's Cabin , off Lost Horse Rd. near Bear Creek Pass, Darby 04/17/1989 88003437	24RA197
-- May, Albert, House , 218 Church St., Stevensville 06/18/1991 Stevensville MPS 91000751	24RA333

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RAVALLI COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- May, Charles, House , 109 Church St., Stevensville 06/18/1991 Stevensville MPS 91000753	24RA335
-- May, George, House , 100 Park Ave., Stevensville 10/25/1982 82000596	24RA89
-- May, Harry, House , 526 Third St., Stevensville 06/18/1991 Stevensville MPS 91000752	24RA334
-- May, Louis, House , 100 Church St., Stevensville 06/19/1991 Stevensville MPS 91000754	24RA336
-- McCart Fire Lookout , approximately 4 mi. S of E. Fork Forest Service Station, Bitterroot National Forest, Sula 06/19/1996 96000660	24RA175
-- McFarlane House , 200 College St., Stevensville 06/19/1991 Stevensville MPS 91000755	24RA337
-- McGlaufflin House , 518 S. Eighth, Hamilton 08/26/1988 Hamilton MRA 88001276	24RA363
-- McLaughlin, John, House , 105 Main St., Stevensville 06/19/1991 Stevensville MPS 91000757	24RA339
-- Metcalf House , 214 Pine St., Stevensville 06/19/1991 Stevensville MPS 91000758	24RA340
-- Methodist Episcopal Church , South Jct. of First St. and Eastside Hwy., Corvallis 11/24/1997 97001453	24RA408
-- Morr, Philip and Ella, House , 502 Buck St., Stevensville 06/19/1991 Stevensville MPS 91000760	24RA342
-- Pine Apartments , 804 S. Fourth St., Hamilton 08/26/1988 Hamilton MRA 88001295	24RA364
-- Popham Ranch , 460 N.E. Popham Ln., Corvallis 01/13/1989 88003141	24RA106

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RAVALLI COUNTY (continued)

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Ravalli County Courthouse , 225 Bedford St., Hamilton 04/20/1979 79001424	24RA105
-- Riverside (Daly Mansion) , Eastside Hwy., Hamilton 07/16/1987 87001235	24RA241
-- Rocky Mountain Laboratory Historic District , 900 blk. of Fourth St. Hamilton 09/01/1988 Hamilton MRA 88001274	24RA373
-- Sharp, John, House , 306 College St., Stevensville 06/19/1991 Stevensville MPS 91000761	24RA344
-- St. Mary's Church and Pharmacy , North Ave., Stevensville 10/06/1970 70000364	24RA147
-- Stevensville Feed Mill , 407 Main St., Stevensville 06/19/1991 Stevensville MPS 91000762	24RA345
-- Stevensville Grade School-United Methodist Church , 216 College, Stevensville 06/19/1991 Stevensville MPS 91000764	24RA347
-- Stevensville Mercantile Company Oil Storage Building , 300 Mission, Stevensville 06/19/1991 Stevensville MPS 91000763	24RA345
-- Stout, John, House , 1000 S. First, Hamilton 08/26/1988 Hamilton MRA 88001290	24RA366
-- Summers-Quast Farmstead , 1288 Eastside Hwy., Corvallis 12/30/1997 97001590	24RA402
-- Thornton Hospital , 107 E. Third St., Stevensville 06/19/1991 Stevensville MPS 91000765	24RA348
-- Trosdahl, Erick, House , 206 S. Seventh St., Hamilton 08/26/1988 Hamilton MRA 88001275	24RA367
-- VFW Club , 930 Adirondac, Hamilton 08/26/1988 Hamilton MRA 88001287	24RA368

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RAVALLI COUNTY (continued)

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- | | |
|--|----------------|
| -- Wallin, Frank, House , 608 N. Seventh St., Hamilton 08/26/1988
Hamilton MRA 88001293 | 24RA369 |
| -- Wamsley, Other C., House , 200 N. Fifth St., Hamilton 08/26/1988
Hamilton MRA 88001285 | 24RA370 |
| -- Williams House , 500 Fifth St., Stevensville 06/19/1991 Stevensville
MPS 91000766 | 24RA349 |
| -- Williams, John and Ann, House , 205 Church St., Stevensville
06/19/1991 Stevensville MPS 91000735 | 24RA317 |
| -- Young, Benjamin, House , 523 Main St., Stevensville 06/19/1991
Stevensville MPS 91000741 | 24RA323 |

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RICHLAND COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

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-- **Peoples' Congregational Church**, 203 2nd Ave.SW, Sidney
04/30/1982 82003179

24RL113

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ROOSEVELT COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|---|----------------|
| -- Fort Peck Agency , in Poplar, Poplar 05/19/1970 70000365 | 24RV427 |
| ➤ Fort Union Trading Post, (mostly in North Dakota) NHL
07/04/1961 | 24RV50 |
| -- Hale's Filling Station and Grocery , Lanark Townsite, Bainville
08/16/1994 Roadside Architecture Along US 2 in Montana MPS
94000864 | 24RV204 |
| -- Lewis and Clark Bridge , (see McCone County) | 24RV438 |

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ROSEBUD COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

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- | | |
|---|-----------------|
| -- Anderson, Herman and Hannah, House , 209 S. 7th Ave.,
Forsyth, MT 02/12/1990 BB Forsyth MPS 90000084 | 24RB1027 |
| -- Archaeology Site , WECO area expansion site, address unlisted
08/20/2000 | 24RB0983 |
| -- Blue Front Rooming House , 1187 Main St., Forsyth, MT
02/12/1990 Forsyth MPS 90000085 | 24RB1017 |
| -- Bookman, J. A., General Store , Main St., Ingomar 09/02/1994
94001067 | 24RB1641 |
| -- Brotherhood of Locomotive Engineers Hall , 262 S. 7th Ave.
Forsyth 02/12/1990 Forsyth MPS 90000086 | 24RB1025 |
| -- Cold Springs Ranch House , US 12 W., Forsyth 01/26/1990
89002347 | 24RB1618 |
| -- First Presbyterian Church and Manse , 1160-1180 Cedar St.
Forsyth, MT 02/12/1990 Forsyth MPS 90000089 | 24RB1016 |
| -- Forsyth Bridge , 3rd Ave. at the Yellowstone River,
Forsyth, MT 02/12/1990 Forsyth MPS 90000090 | 24RB1028 |
| -- Forsyth Main Street Historic District , Roughly bounded
by Cedar St. 11th Ave Main St. and 8th St., Forsyth 02/12/1990
Forsyth MPS 90000081 | 24RB1029 |
| -- Forsyth Residential Historic District , Roughly bounded by
Cedar St., 11th Ave., Willow St., 12th Ave., Oak St., and
14th Ave., Forsyth, MT 02/12/1990 Forsyth MPS 90000082 | 24RB1032 |
| -- Forsyth Water Pumping Station , 3rd Ave. at the Yellowstone
River, Forsyth 02/12/1990 Forsyth MPS 90000087 | 24RB1023 |
| -- Ingomar Public School , Second Ave., Ingomar 09/02/1994
94001068 | 24RB1643 |

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ROSEBUD COUNTY

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(Smithsonian number)

- | | |
|---|-----------------|
| -- Marcyes, Claude O., House , 390 S. 7th Ave., Forsyth
02/12/1990 Forsyth MPS 90000088 | 24RB1018 |
| -- Rosebud County Courthouse , 1250 Main St., Forsyth 04/17/1986
86000807 | 24RB1504 |
| -- Rosebud County Deaconess Hospital , N. 17th Ave, Forsyth
11/16/1979 79001425 | 24RB399 |
| -- Vananda Historic District , US 12, 17 mi. W of Forsyth, MT
Forsyth 04/19/1990 90000629 | 24RB1584 |
| -- Wiley, Clark & Greening Bank , Main St., Ingomar 09/02/1994
94001069 | 24RB1642 |
| -- Wolf Mountains Battlefield , Address Restricted, Birney vicinity,
01000037, 01/10/2001 | 24RB2007 |

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SANDERS COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|-----------------|
| -- Ainsworth House , 911 Maiden Lane, Thompson Falls, 10/07/1986
Thompson Falls MRA 86002771 | 24SA259 |
| -- Bedard House , 207 Spruce St., Thompson Falls 10/07/1986 Thompson
Falls MRA 86002783 | 24SA266 |
| -- Bull River Guard Station , on banks of Bull R. near confluence with
E. Fork Bull R., Kootenai NF Noxon, MT 06/27/1990 90000990 | 24SA69 |
| -- Gem Saloon , 808 Main St., Thompson Falls 10/07/1986 Thompson Falls
MRA 86002767 | 24SA258 |
| -- Grandchamp House , 1012 Preston Ave., Thompson Falls 10/07/1986
Thompson Falls MRA 86002776 | 24SA261 |
| -- Griffen House , 205 Gallatin St., Thompson Falls 10/07/1986 Thompson
Falls MRA 86002779 | 24SA264 |
| -- House at 112 Park Street , 112 Park St., Thompson Falls 10/07/1986
Thompson Falls MRA 86002778 | 24SA326 |
| -- House at 916 Preston Avenue , 916 Preston Ave., Thompson Falls
10/07/1986 Thompson Falls MRA 86002777 | 24SA325 |
| -- Hoyt House , 204 Gallatin St., Thompson Falls 10/07/1986 Thompson
Falls MRA 86002780 | 24SA263 |
| -- IOOF Lodge , 520 Main St., Thompson Falls 10/07/1986 Thompson Falls
MRA 86002761 | 24SA135 |
| -- Norby House , 13 Pond St., Thompson Falls 10/07/1986 Thompson Falls
MRA 86002775 | 24SA215 |
| -- Northern Pacific Warehouse , bounded by Preston Ave. and Main St
along Burlington Northern Right-of-Way, Thompson Falls 10/07/1986
Thompson Falls MRA 86002785 | 24SA214. |
| -- Preston House , 205 Ferry St., Thompson Falls 10/07/1986 Thompson
Falls MRA 86002784 | 24SA265 |

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SANDERS COUNTY

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- | | |
|--|----------------|
| -- Rinard House , 210 Jefferson St., Thompson Falls 10/07/1986
Thompson Falls MRA 86002782 | 24SA134 |
| -- Sanders County Jail, Madison and Maiden Lane , Thompson Falls, MT 0/07/1986 Thompson Falls MRA 86002774 | 24SA222 |
| -- Symes Hotel , 209 N. Wall St., Hot Springs 11/12/1998 98001363 | 24SA514 |
| -- Thayer House , 109 Jefferson St., Thompson Falls 12/22/1986
Thompson Falls MRA 86002781 | 24SA133 |
| -- Thompson Falls Hydroelectric Dam Historic District ,
U.S ALT. #10 at Clark Fork River within NW part of
Thompson Falls, MT, 10/07/1986 Thompson Falls MRA 86002756 | 24SA165 |
| -- Tourist Hotel , 101 Main St., Thompson Falls 10/07/1986 Thompson Falls MRA 86002765 | 24SA257 |
| -- Ward Hotel , 919 Main St., Thompson Falls 12/22/1986 Thompson Falls MRA 86002769 | 24SA132 |
| -- Weber's Store , 510 Main St., Thompson Falls 10/07/1986 Thompson Falls MRA 86002763 | 24SA256 |

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SHERIDAN COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Comertown Historic District , Roughly, entire town of Comertown, W of Westby, MT 10/27/1993 Sheridan County MPS 93001149	24SH784
-- Larsen, Aage and Kristine, Homestead , Co. Hwy. 516 North of Dagmar 10/27/1993 Sheridan County MPS 93001146	24SH719
-- Outlook Depot , S of western edge of Marr St., S of Block 10 Outlook, MT 10/27/1993 Sheridan County MPS 93001144	24SH775
-- Raymond Grain Elevators Historic District , Unnamed Co. Road East of MT16, NE of Raymond, Raymond 10/27/1993 Sheridan County MPS 93001148	24SH738 & 24SH739
-- Rocky Valley Lutheran Church , Jct. of Ueland St. and Unnamed County Rd., Dooley 10/27/1993 Sheridan County MPS 93001145	24SH785
-- Thornwood School , Unnamed Co. Rd. approximately 17 mi. W of Reserve, MT 10/28/1993 Sheridan County MPS 93001147	24SH748
-- Tipi Hills , Address Restricted, Medicine Lake 08/01/1975 75001085	24SH1008

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SILVER BOW COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Big Hole Pumpstation**, MT 43, Divide 09/24/1980 80002432 **24SB257**
- **Butte Historic District, Butte and Walkerville city limits, Butte** **24SB354**
10/15/1966 66000438 NHL 07/04/1961
- **Butte, Anaconda and Pacific Railway Historic District** (Boundary Increase), Confluence of German Gulch and Silver Bow Creeks at E. end of Silver Bow Canyon, Durant 01/13/1989 88003149 **24SB124**
- **Clark, Charles W., Mansion**, 108 N. Washington St., Butte 10/22/1976 76001128 **24SB255**
- **Clark, W. A., Mansion**, 219 W. Granite, Butte 10/06/1970 70000366 **24SB355**
- **Hawthorne Grade School**, 3500 White Way, Butte 01/25/1988 **24SB321**
Suburban Schools in Butte TR 87002304
- **Longfellow Grade School**, 1629 Roosevelt Ave., Butte 01/25/1988 **24SB321**
Suburban Schools in Butte TR 87002305
- **Madison Grade School**, 45 E. Greenwood, Butte 01/25/1988 Suburban **24SB321**
Schools in Butte TR 87002306
- **Matt's Place Drive-In**, 2339 Placer Street, Butte, 01000308, 03/29/2001 **24SB524**
- **Ramsay Historic District**, 6.5 mi. W of Butte on I - 90, Butte 01/14/1988 **24SB288**
87002227
- **Silver Bow Brewery Malt House**, W of Butte off U.S. 91, Butte 01/19/1983 **24SB259**
83001076
- **Silver Bow County Poor Farm Hospital**, 3040 Continental Dr., Butte **24SB254**
07/16/1981 81000366
- **Socialist Hall**, 1957 Harrison Ave., Butte 05/26/1995 95000661 **24SB584**
- **U. S. Post Office**, 400 N. Main St, Butte 11/15/1979 79001426 **24SB258**

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SILVER BOW COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

➤ **Wheeler, Burton K., House, 1232 E. 2nd St., Butte 12/08/1976**
76001129 NHL 12/08/76

24SB256

MONTANA
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STILLWATER COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Four K Ranch , Fiddler Creek Road, Dean Montana, 02000049, 02/14/2002	24ST0704
-- Halfway House , 3951 MT 78, Columbus, Montana 02000047, 02/21/2002	24ST0166
-- Hovda, Oliver H., House , N. Woodward St., Absarokee 08/16/1984 84002506	24ST76
-- Jacobs, Michael, House , 4 W. First Avenue, N Columbus 01/28/1987 86003676	24ST86
-- Mountain View Cemetery , US 10 and Rapelje Rd., Columbus 07/16/1987 87001200	24ST88
-- Norton, W. H., House , 3rd Ave., Columbus 10/25/1982 82000597	24ST75
-- Sandstone and Cobblestone Schools , Main St., Absarokee 01/15/1987 86002949	24ST87
-- Stoltz House , 405 SW. First St., Park City 04/16/1991 91000422	24ST39
-- Torgrimson Place , W. Rosebud Road, Fishtail Vicinity 08/31/2001 Stillwater County, Montana 01000921	24ST0337

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SWEET GRASS COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Big Timber Town Hall , 225 McLeod St., Big Timber 02/13/1998 98000125	24SW335
-- Brannin Ranch , W of Melville on Sweet Grass Creek, Melville 01/13/1989 88003142	24SW154
-- Carnegie Public Library , 314 McLeod Street, Big Timber MT 59011 07/11/2002, 02000725	-----
-- Grand Hotel , 139 McLeod, Big Timber 09/19/1985 85002424	24SW169
-- Harrison, Waborn (Wabe) and Sarah E., Ranch House , Roughly the Jct. of Sweet Grass Creek and the Yellowstone River, Greycliff vicinity 08/28/1998 98001111	24SW701
-- Spanning, John Otto, Family Farm , 7 mi. E of Big Timber, Big Timber 02/23/1995 95000145	24SW326
-- St. Mark's Episcopal Church , W. Fourth Ave., Big Timber 07/21/1995 95000900	24SW451
-- Yellowstone Crossing, Bozeman Trail , NE of Springdale on US 10, Springdale 12/01/1978 78003407	24SW155

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TETON COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

No properties listed.

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TOOLE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|--|----------------|
| -- Bethany Lutheran Church , 0.25 mi. S. of Gus Blaze Rd., Oilmont
12/14/1993 93001375 | 24TL296 |
| -- Kevin Depot , Central Ave. and 1st St., Kevin 08/11/1980 80002433 | 24TL92 |
| -- Rainbow Conoco , 400 Main St., Shelby 08/16/1994 Roadside
Architecture along US 2 in Montana MPS 94000866 | 24TL282 |
| -- Rocky Springs Segment of the Whoop-Up Trail , Address
Restricted, Kevin 04/15/1993 Whoop-Up Trail of Northcentral
Montana MPS 93000278 | 24TL249 |
| -- U.S. Customs Building , I-15 just S. of US-Canada border,
Sweetgrass 02/28/1991 91000152 | 24TL204 |

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TREASURE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|---|----------------|
| -- Sanders Gymnasium and Community Hall , Old Hwy 10, 6 mi. E.
of Hysham, Sanders 08/29/1997 97000976 | 24TE104 |
| -- Yucca Theatre , 520 Division St., Hysham 01/07/1994 93001447 | 24TE54 |

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VALLEY COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Administration Building , E. Kansas Ave., Fort Peck 08/13/1986 Fort Peck MRA 86002058	24VL590
-- Employee's Hotel and Garage , S. Missouri Ave., Fort Peck 08/13/1986 Fort Peck MRA 86002060	24VL590
-- First National Bank of Glasgow , 110 Fifth St. S, Glasgow 06/27/2002 02000698	24VL
-- Fort Peck Dam , on the Missouri River, Fort Peck 08/13/1986 Fort Peck MRA 86002061	24VL590
-- Fort Peck Original Houses Historic District , 1101-1112 E. Kansas Ave., Fort Peck 08/13/1986 Fort Peck MRA 86002067	24VL590
-- Fort Peck Theatre , Missouri Ave., Fort Peck 06/27/1983 83001077	24VL428
-- Garage and Fire Station , Gasconade St., Fort Peck 08/13/1986 Fort Peck MRA 86002063	24VL590
-- Hospital , S. Platte St., Fort Peck 08/13/1986 Fort Peck MRA 86002054	24VL590
-- Recreation Hall , Missouri Ave., Fort Peck 08/13/1986 Fort Peck MRA 86002066	24VL590
-- Sargent, Charles C., House , 615 Front St., Nashua 07/08/1982 82003180	24VL429
-- US Post Office and Courthouse-Glasgow Main , 605 Second Ave. S. Glasgow 03/21/1986 US Post Offices in Montana, 1900--1941, TR 86000679	24VL596

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WHEATLAND COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

-- **Graves Hotel**, 106 S. Central Ave., Harlowton 08/06/1980 80002434

24WL81

-- **Milwaukee Road Historic District**, S end of Central Ave., Harlowton
07/08/1988 88001024

24WL98

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WIBAUX COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- St. Peter's Catholic Church , W. Orgain Ave., Wibaux 03/14/1990 90000356	24WX118
-- Wibaux Commercial Historic District , Roughly bounded by W. Orgain Ave., Wibaux, E. First Ave. S. and E., Wibaux 12/28/1989 89002170	24WX117
-- Wibaux, Pierre, House , Orgain Ave., Wibaux 09/10/1997 71000483	24WX82

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YELLOWSTONE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)	(Smithsonian number)
-- Antelope Stage Station , E of Broadview, Broadview 01/19/1983 83001078	24YL257
-- Billings Chamber of Commerce Building , 303 N. 27th St., Billings 01/20/1972 72000739	24YL259
-- Billings Historic District , Roughly bounded by N. 23rd and N. 25th Sts., 1st and Montana Aves., Billings 03/13/1979 79001427	24YL752
-- Billings West Side School --also called Broadwater School, 415 Broadwater Ave, 02000214,Billings, 03/20/2002	24YL196
-- Boothill Cemetery , N of Billings, Billings, 04/17/1979 79001428	24YL755
-- Electric Building , 113-115 Broadway, Billings, 02000105, 03/01/2002	24YL1539
-- Fire House No. 2 , 201, E. 30th St., Billings 02/29/1980 80002436	24YL261
-- Hoskins Basin Archeological District , Address Restricted, Billings 11/20/1974 74001100	24YL1031
-- Masonic Temple , 2806 Third Ave. N, Billings, 04/17/1986 86000847	24YL260
-- Moss, Preston B., House , Address Restricted, Billings, 04/30/1982 82003181	24YL263
-- North, Austin, House , 622 N. 29th St., Billings, 11/23/1977 77000822	24YL258
-- O'Donnell, I. D., House , 105 Clark Ave., Billings, 11/23/1977 77000823	24YL265
-- Parmly Billings Memorial Library , 2822 Montana Ave., Billings 10/26/1972 72000740	24YL756
➤ Pictograph Cave , 7 mi. SE of Billings in Indian Caves Park, Billings 10/15/1966 66000439 NHL 07/19/1964	24YL1
➤ Pompey's Pillar , W. of Pompey, Pompey's Pillar 10/15/1966 66000440 NHL 07/23/65	24YL176

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YELLOWSTONE COUNTY

(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- | | |
|---|----------------|
| -- Prescott Commons , Rimrock Rd., Billings, 04/30/1982 82003182 | 24YL264 |
| -- US Post Office and Courthouse-Billings , 2602 First Ave. N., Billings
03/14/1986 US Post Offices in Montana, 1900--1941, TR 86000678 | 24YL754 |
| -- Yegen, Christian, House , 208 S. 35th St., Billings, 10/01/1979
79003779 | 24YL262 |
| -- Yegen, Peter, House , 209 S. 35th St., Billings, 04/16/1980
80002437 | 24YL266 |

MONTANA
NATIONAL REGISTER OF HISTORIC PLACES

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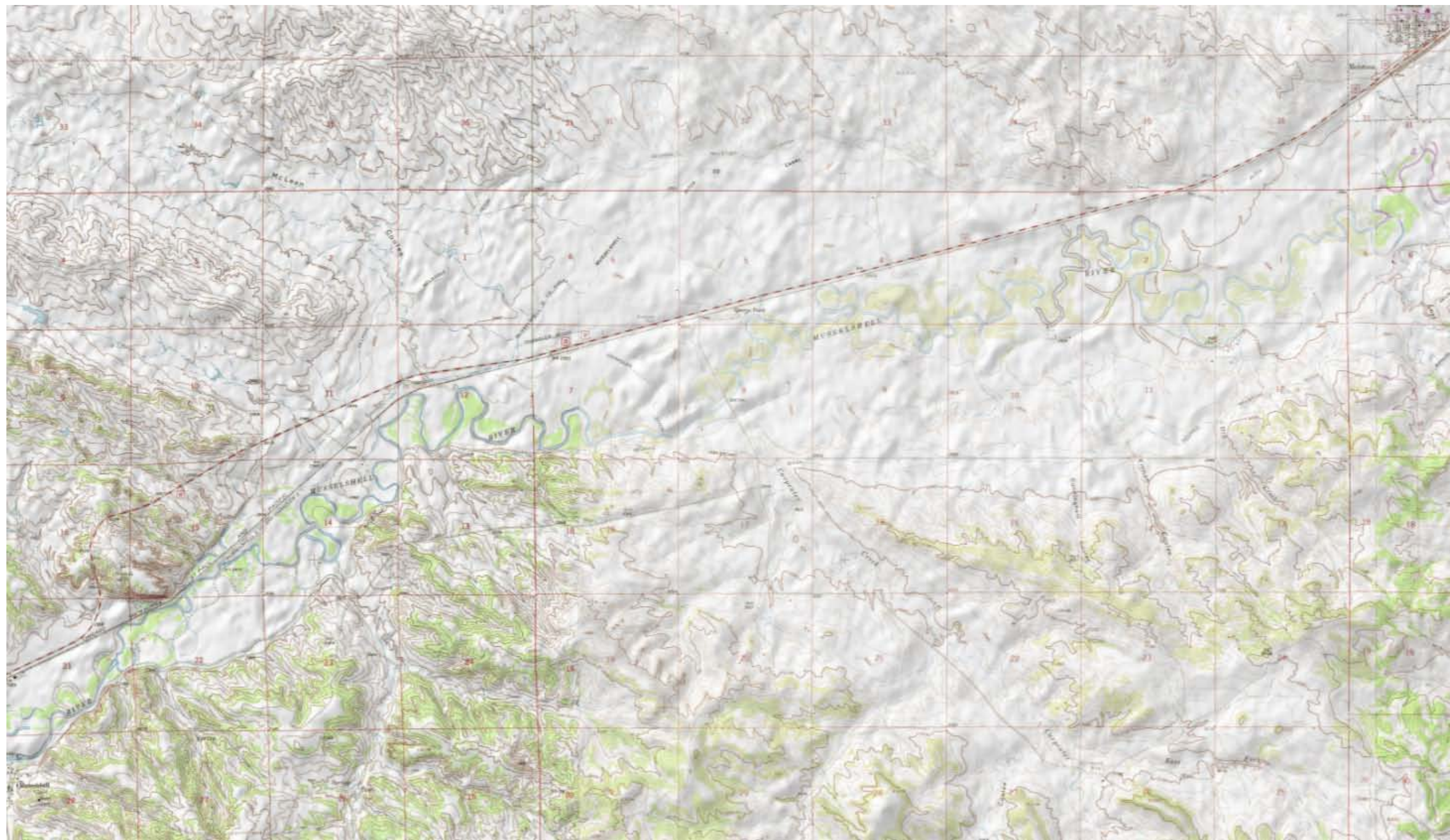
YELLOWSTONE NATIONAL PARK

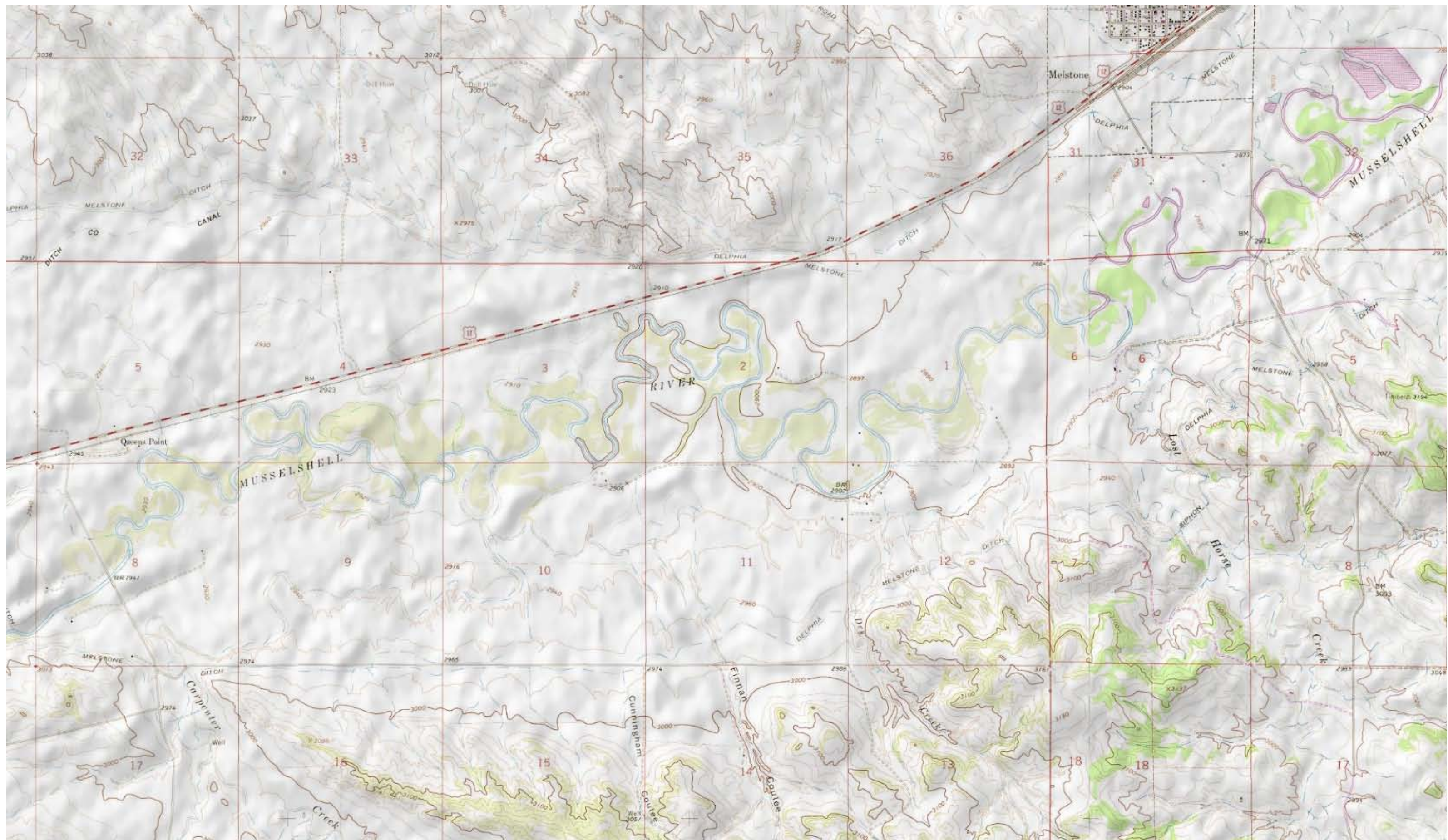
(Name, Address, City, Listed date, Multiple, NR Reference number)

(Smithsonian number)

- **Northeast Entrance Station, U.S. 212, Yellowstone National Park
05/28/1987 87001435 NHL 05/28/1987** **24YE107**
- **Montana Park County, North Entrance Road Historic District,
Yellowstone National Park, Yellowstone National Park vicinity,
02000529, listed 5/22/02 (Yellowstone National Park MPS)**

ACTION	DATE	FUNDING	NOTES
Hire Engineer/Administrator	DONE		
Submit TSEP, DNRC Grant Applications	'May 2008	RD	
Results of Grant Applications Known	Oct 2008		
Land Acquisition Complete	Nov 2008		
Apply to RD for Grant/Loan	Dec 2008		If insufficient funding, reapply or phase project
Begin Design Phase	Mar 2009	RD, CDBG	
TSEP, DNRC Grant Funds Available	June 2009		
Start-Up	July 2009	RD, CDBG	
Submit Plans to DEQ	Dec 2009		
DEQ Approval	Feb 2010		Allows 2 full months for review
Advertise and Bid Project	Feb - Mar 2010	RD, CDBG	
Construction	Mar - Aug 2010	RD, CDBG, TSEP, DNRC	Allows Contractor to begin in early spring
Final Walk-Through	Sept 2010		
Close-out	Nov 2010		Closeout would be conditional for TSEP, CDBG; Final for DNRC
Schedule Audit	Feb 2011	RD, CDBG, TSEP	Evaluate need special single audit act due to high amount of state funds
Final TSEP Close-out	Mar 2011		For TSEP and CDBG
11 Month Walk-Through	Aug 2011		





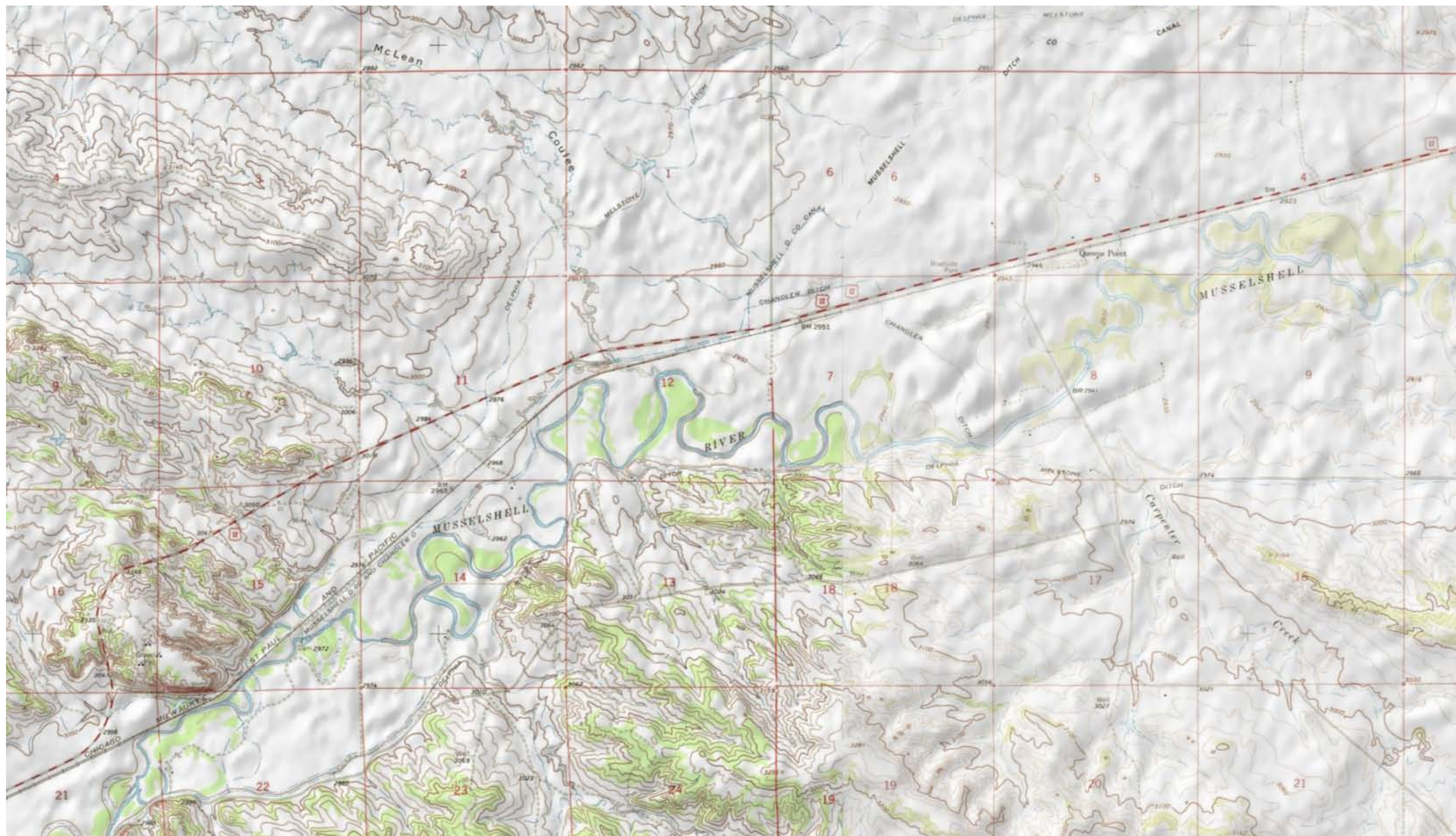


Table 7.10: Decision Matrix

Criteria	Weight	Alternative 1		Alternative 2a		Alternative 2b		Alternative 2c		
		Score	Wtd.	Score	Wtd.	Score	Wtd.	Score	Wtd.	
Technical Feasibility	6	2.0	12	6.0	36	6.0	36	4.0	24	
Environmental Impacts	3	5.0	15	7.0	21	7.0	21	2.0	6	
Life Cycle Cost	10	7.1	71	4.8	48	5.7	57	4.3	43	
Public Health and Safety	8	6.0	48	8.0	64	8.0	64	8.0	64	
Operation and Maintenance	6	6.0	36	9.0	54	9.0	54	7.0	42	
Public Opinion	4	2.0	8	3.0	12	4.0	16	2.0	8	
TOTAL	---	190		235		248		187		
RANK	---	3		2		1		4		
It is important to note that the above scoring and weighting are subjective. Alternatives that score overall within 10 pts of each other may essentially hold the same degree of preference.										

540000
720000

Wells - Estimated Chemical Costs

\$880

Item	Well O&M Costs	Microfiltration O&M Costs
Personnel Costs	-\$7,800	-\$3,510
Energy Costs	-\$458	\$1,005
Chemical Costs	-\$3,820	-\$1,054
UV Lamp Replacement	\$0	\$600
Membrane Module Replacement	\$0	\$2,400
Algae Control	\$0	\$600
Total Change in O&M Costs	-\$12,078	\$41

Pipeline 1C

Poole Rd	5.23 miles
----------	------------

Queens Point Rd	127.65
-----------------	--------

Poole Rd	131.98
----------	--------

Total Distance	4.33 miles
----------------	------------

Well	121.3
------	-------

Harvey Rd	125
-----------	-----

Total Distance	3.7 miles
----------------	-----------

Total Distance	13.26 miles
----------------	-------------

Populations for Town of Melstone (July 2007)

Historic Populations based on Census Data:

YEAR	MELSTONE			MUSSELSHELL COUNTY		
	POPULATION	10-YEAR CHANGE	ANNUAL CHANGE	POPULATION	10-YEAR CHANGE	ANNUAL CHANGE
1940	203			5717		
1950	195	-3.94%	-0.40%	5408	-5.40%	-0.55%
1960	266	36.41%	3.15%	4888	-9.62%	-1.01%
1970	227	-14.66%	-1.57%	3734	-23.61%	-2.66%
1980	238	4.85%	0.47%	4428	18.59%	1.72%
1990	166	-30.25%	-3.54%	4106	-7.27%	-0.75%
2000	136	-18.07%	-1.97%	4497	9.52%	0.91%
	AVERAGE		-0.64%	AVERAGE		-0.39%

Population Estimates by the U.S. Census Bureau:

YEAR	MELSTONE		MUSSELSHELL COUNTY	
	POPULATION	ANNUAL CHANGE	POPULATION	ANNUAL CHANGE
2000	136		4500	
2001	135	-0.74%	4446	-1.20%
2002	135	0.00%	4460	0.31%
2003	136	0.74%	4486	0.58%
2004	136	0.00%	4514	0.62%
2005	136	0.00%	4474	-0.89%
2006	139	2.21%	4586	2.50%
	AVERAGE	0.37%	AVERAGE	0.32%

Population Projections:

YEAR	ANNUAL GROWTH RATE	EQUIVALENT POPULATION		TOTAL EQUIVALENT POPULATION
		RESIDENT	SCHOOL (OUT OF TOWN)	
2006		139	19	158
2010	1.00%	144.6	19.8	164
2020	1.00%	159.8	21.8	182
2030	1.00%	176.5	24.1	201



PWSID: MT0000290 Name: MELSTONE TOWN OF

City: MELSTONE

County: MUSSELSHELL

Tot Pop:170

Pri Src: SW

Class: C

Last Snty Srv Dt: 11/15/2006

Activity Status: A

Type	Conn's	In Srvc Dts	Eff Begin Dt	Avg Daily Cnt	Type
RS	78	1/1-12/31	11/15/2006	170	R

Administrative Contact
DEJAEGER, WANDA

Financial Contact
BARNETT, PAM

Operator
DEJAEGER, WANDA J

Owner

TOWN OF MELSTONE

Facilities and Entry Points

Status: A 11/15/2006 **Fac ID** CW001 **CLEAR WELL** **Src:** SW

Lat/Long Dec: **DMS:**

Status: A 10/04/2000 **Fac ID** DS001 **DISTRIBUTION SYSTEM** **Src:** SW

Lat/Long Dec: **DMS:**

Smp Pt ID	Status	Description
DBPMAX1	A 01/01/2004	
SP001	A 03/31/2000	SP FOR DS

Status: A 10/04/2000 **Fac ID** IN002 **INTAKE MUSSELSHELL RIVER** **Src:** SW

Lat/Long Dec: **DMS:**

Smp Pt ID	Status	Description
TOCRAW	A 08/01/2006	DBP COMPLIANCE

Status: A 11/15/2006 **Fac ID** RS001 **RAW WATER RESERVOIR** **Src:** SW

Lat/Long Dec: **DMS:**

Status: A 10/05/2000 **Fac ID** ST001 **STORAGE FACILITY** **Src:** SW

Lat/Long Dec: **DMS:**

Status: A 10/04/2000 **Fac ID** TP002 **TP FOR MUSSELSHELL RIVER** **Src:** SW

Lat/Long Dec: **DMS:**

TP Units: D401 D403 P240 P345 P348 P360 P600 P660 P700

Smp Pt ID	Status	Description
EP502	A 10/04/2000	EP TP MUSSELSHELL R
TOCFIN	A 08/01/2006	DBP COMPLIANCE

Status: A 08/16/2005 **Fac ID** WL002 **WELL 1** **Src:** GW

Lat/Long Dec: **DMS:**



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Status: P 08/16/2005 Fac ID WL003 WELL 2 Src: GW
Lat/Long Dec: DMS:

Status: P 08/16/2005 Fac ID WL004 WELL 3 Src: GW
Lat/Long Dec: DMS:

Sample Schedules/Monitoring Requirements

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM Status: A Src:SW

Smp Pt I	Active	Smp Pt Descriptio
SP001	A	SP FOR DS

Group	Name	Schd Beg Dat	Seas Coll Pe	Requiremen
3100	COLIFORM, TOTAL (TCR)	08/01/2005	1/1-12/31	1 RT MN

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM Status: A Src: SW

Smp Pt I	Active	Smp Pt Descriptio
SP001	A	SP FOR DS

Group	Name	Schd Beg Dat	Init MP Be	Seas Coll Pe	Requiremen
ASBE	CDS ASBESTOS	01/01/2002	01/01/2002	1/1-12/31	1 RT 9Y
CDBP	CDS DISINFECTANT BPS	07/01/2005	01/01/2004	1/1-12/31	1 RT QT
PBCU	CDS LEAD COPPER ONLY	01/01/2002	01/01/2002	1/1-12/31	5 RT 3Y

Fac ID: TP002 Fac Name: TP FOR MUSSELSHELL RIVER Status: A Src: SW

Smp Pt I	Active	Smp Pt Descriptio
EP502	A	EP TP MUSSELSHELL R

Group	Name	Schd Beg Dat	Init MP Be	Seas Coll Pe	Requiremen
ARSE	CDS ARSENIC	01/01/1999	01/01/1999	1/1-12/31	1 RT YR
COMB	CDS RADIUMS COMBINED	01/01/2008	01/01/2008	1/1-12/31	1 RT 9Y
GRAL	CDS RAD GROSS ALPHA	01/01/2008	01/01/2008	1/1-12/31	1 RT 9Y
INO3	CDS W P2-5 INORGANIC	01/01/2002	01/01/2002	1/1-12/31	1 RT 9Y
NITR	CDS NITRATE NITRITE	01/01/2000	01/01/2000	1/1-12/31	1 RT YR
SOC1	CDS SOC	01/01/1999	01/01/1999	1/1-12/31	1 RT 3Y
VOC1	CDS VOC	01/01/2000	01/01/2000	1/1-12/31	1 RT YR

Bacti Results

FROM 01/01/2000 TO 07/26/2007

Collection D	Lab Numbe	Type	Orig Lab	Code	TCR Presenc	Fec/EC Result
06/27/2007	B07062615-001	ART		3014	COLIFORM, E. COLI	A -
06/27/2007	B07062615-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
05/23/2007	B07052144-001	ART		3014	COLIFORM, E. COLI	A -
05/23/2007	B07052144-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
04/25/2007	B07042266-001	ART		3014	COLIFORM, E. COLI	A -
04/25/2007	B07042266-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
03/19/2007	B07031430-001	ART		3014	COLIFORM, E. COLI	A -
03/19/2007	B07031430-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
02/19/2007	B07021051-001	ART		3014	COLIFORM, E. COLI	A -



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
02/19/2007	B07021051-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/24/2007	B07011588-001ART			3014	COLIFORM, E. COLI	A	-
01/24/2007	B07011588-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
12/18/2006	B06121304-001ART			3014	COLIFORM, E. COLI	A	-
12/18/2006	B06121304-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
11/20/2006	B06111455-001ART			3014	COLIFORM, E. COLI	A	-
11/20/2006	B06111455-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/30/2006	B06102192-001ART			3014	COLIFORM, E. COLI	A	-
10/30/2006	B06102192-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/27/2006	B06092198-001ART			3014	COLIFORM, E. COLI	A	-
09/27/2006	B06092198-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
08/21/2006	B06081854-001ART			3014	COLIFORM, E. COLI	A	-
08/21/2006	B06081854-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/27/2006	B06072111-001ART			3014	COLIFORM, E. COLI	A	-
07/27/2006	B06072111-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/29/2006	B06062569-001ART			3014	COLIFORM, E. COLI	A	-
06/29/2006	B06062569-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
05/24/2006	B06052180-001ART			3014	COLIFORM, E. COLI	A	-
05/24/2006	B06052180-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/27/2006	B06042335-001ART			3014	COLIFORM, E. COLI	A	-
04/27/2006	B06042335-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/21/2006	B06031402-001ART			3014	COLIFORM, E. COLI	A	-
03/21/2006	B06031402-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
02/22/2006	B06021382-001ART			3014	COLIFORM, E. COLI	A	-
02/22/2006	B06021382-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/23/2006	B06011340-001ART			3014	COLIFORM, E. COLI	A	-
01/23/2006	B06011340-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
12/20/2005	B05121192-001ART			3014	COLIFORM, E. COLI	A	-
12/20/2005	B05121192-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
11/15/2005	B05111061-001ART			3014	COLIFORM, E. COLI	A	-
11/15/2005	B05111061-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/24/2005	B05101476-001ART			3014	COLIFORM, E. COLI	A	-
10/24/2005	B05101476-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/26/2005	B05091804-001ART			3014	COLIFORM, E. COLI	A	-
09/26/2005	B05091804-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
08/16/2005	B05081287-001ART			3014	COLIFORM, E. COLI	A	-
08/16/2005	B05081287-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/12/2005	B05070723-001ART			3014	COLIFORM, E. COLI	A	-
07/12/2005	B05070723-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/12/2005	B05070723-002ART			3014	COLIFORM, E. COLI	A	-
07/12/2005	B05070723-002ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/12/2005	B05070723-003ART			3014	COLIFORM, E. COLI	A	-
07/12/2005	B05070723-003ART			3100	COLIFORM, TOTAL (TCR)	A -	



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
07/12/2005	B05070723-004ART			3014	COLIFORM, E. COLI	A	-
07/12/2005	B05070723-004ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/12/2005	B05070749-001ART			3014	COLIFORM, E. COLI	A	-
07/12/2005	B05070749-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/28/2005	B05062038-001ARP	B05061479-C		3014	COLIFORM, E. COLI	A	-
06/28/2005	B05062038-001ARP	B05061479-C		3100	COLIFORM, TOTAL (TCR)	A -	
06/28/2005	B05062038-002ARP	B05061479-C		3014	COLIFORM, E. COLI	A	-
06/28/2005	B05062038-002ARP	B05061479-C		3100	COLIFORM, TOTAL (TCR)	A -	
06/28/2005	B05062038-003ARP	B05061479-C		3014	COLIFORM, E. COLI	A	-
06/28/2005	B05062038-003ARP	B05061479-C		3100	COLIFORM, TOTAL (TCR)	A -	
06/28/2005	B05062038-004ARP	B05061479-C		3014	COLIFORM, E. COLI	A	-
06/28/2005	B05062038-004ARP	B05061479-C		3100	COLIFORM, TOTAL (TCR)	A -	
06/20/2005	B05061479-001ART			3014	COLIFORM, E. COLI	A	-
06/20/2005	B05061479-001ART			3100	COLIFORM, TOTAL (TCR)	P +	
05/23/2005	B05051686-001ART			3014	COLIFORM, E. COLI	A	-
05/23/2005	B05051686-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/26/2005	B05041838-001ART			3014	COLIFORM, E. COLI	A	-
04/26/2005	B05041838-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/21/2005	B05031277-001ART			3014	COLIFORM, E. COLI	A	-
03/21/2005	B05031277-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
02/22/2005	B05021157-001ART			3014	COLIFORM, E. COLI	A	-
02/22/2005	B05021157-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/11/2005	B05010472-001ART			3014	COLIFORM, E. COLI	A	-
01/11/2005	B05010472-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
12/13/2004	B04120839-001ART			3014	COLIFORM, E. COLI	A	-
12/13/2004	B04120839-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
11/09/2004	B04110552-001ART			3014	COLIFORM, E. COLI	A	-
11/09/2004	B04110552-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/25/2004	B04101428-001ART			3014	COLIFORM, E. COLI	A	-
10/25/2004	B04101428-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/14/2004	B04090916-001ART			3014	COLIFORM, E. COLI	A	-
09/14/2004	B04090916-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
08/24/2004	B04081539-001ART			3014	COLIFORM, E. COLI	A	-
08/24/2004	B04081539-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/20/2004	B04071290-001ART			3014	COLIFORM, E. COLI	A	-
07/20/2004	B04071290-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/08/2004	B04060680-001ART			3014	COLIFORM, E. COLI	A	-
06/08/2004	B04060680-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
05/18/2004	B04051108-001 RT			3100	COLIFORM, TOTAL (TCR)	A -	
04/19/2004	B04041240-001 RT			3100	COLIFORM, TOTAL (TCR)	A -	
03/16/2004	B04030892-001 RT			3100	COLIFORM, TOTAL (TCR)	A -	
02/17/2004	B04020758-001 RT			3100	COLIFORM, TOTAL (TCR)	A -	
01/20/2004	B04010745-1 RT			3100	COLIFORM, TOTAL (TCR)	A -	



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
12/15/2003	B03120828-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/19/2003	B03110911-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/14/2003	B03100793-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/24/2003	B03091289-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/12/2003	B03080618-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/22/2003	B03071258-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/23/2003	B03061395-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/20/2003	B03051207-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/14/2003	B03040917-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/18/2003	B03030775-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/18/2003	B03020719-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/13/2003	B03010584-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/18/2002	B02120961-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/13/2002	B02110684-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/21/2002	B02101074-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/18/2002	B02091023-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/14/2002	B02080789-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/23/2002	B02071292-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/12/2002	B02060769-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/15/2002	B02050848-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/16/2002	B02040829-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/18/2002	B02030676-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/20/2002	B02020737-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/22/2002	B02010357-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/12/2001	001-01-61063	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/19/2001	001-01-60283	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/22/2001	001-01-59383	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/19/2001	001-01-58238	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/14/2001	001-01-57067	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/16/2001	001-01-55946	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/25/2001	001-01-55149	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/21/2001	001-01-53882	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/16/2001	001-01-52892	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/13/2001	001-01-51866	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/14/2001	001-01-51152	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/17/2001	001-01-50471	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/13/2000	001-00-60755	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/08/2000	W0011-07640	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/02/2000	W0010-06655	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/05/2000	W0009-06011	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/07/2000	W0008-05211	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/11/2000	W0007-04558	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/11/2000	W0007-04559	RT		3100	COLIFORM, TOTAL (TCR)	A	-



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
07/11/2000	W0007-04560	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/11/2000	W0007-04561	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/11/2000	W0007-04562	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/08/2000	W0006-03698	RP	W0006-0362	3100	COLIFORM, TOTAL (TCR)	A	-
06/08/2000	W0006-03699	RP	W0006-0362	3100	COLIFORM, TOTAL (TCR)	A	-
06/08/2000	W0006-03700	RP	W0006-0362	3100	COLIFORM, TOTAL (TCR)	A	-
06/08/2000	W0006-03701	RP	W0006-0362	3100	COLIFORM, TOTAL (TCR)	A	-
06/07/2000	W0006-03621	RT		3014	COLIFORM, E. COLI	A	-
06/07/2000	W0006-03621	RT		3100	COLIFORM, TOTAL (TCR)	P	+
05/02/2000	W0005-02753	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/10/2000	001-00-52724	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/10/2000	002-00-52724	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/10/2000	003-00-52724	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/06/2000	1419	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/08/2000	987	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/03/2000	1-00028	RT		3100	COLIFORM, TOTAL (TCR)	A	-

Chemical Results

FROM 01/01/2000 TO 07/26/2007

Fac ID: DS001

Fac Name: DISTRIBUTION SYSTEM

Avl:P

Status: A Src: SW

Smp Pt ID: SP001

Status: A Description: SP FOR DS

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	02/22/2006	24	B06021387-002A	3.6 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	01/11/2005	24	B05010478-001A	5.46 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	01/11/2005	24	B05010478-002A	5.79 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	01/11/2005	08	B05010478-003A	309 MG/L
IOC 1332-21-4	1094	ASBESTOS	RT	12/15/2004	35	04-36977	< MDL .01 MFL
IOC 7440-50-8	1022	COPPER	RT	09/09/2004	08	B04090712-001A	0.02 MG/L
IOC 7439-92-1	1030	LEAD	RT	09/09/2004	08	B04090712-001A	0.011 MG/L
IOC 7440-50-8	1022	COPPER	RT	09/09/2004	08	B04090712-002A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	09/09/2004	08	B04090712-002A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	09/09/2004	08	B04090712-003A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	09/09/2004	08	B04090712-003A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	09/09/2004	08	B04090712-004A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	09/09/2004	08	B04090712-004A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	09/09/2004	08	B04090712-005A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	09/09/2004	08	B04090712-005A	< MRL .001 MG/L

Smp Pt ID: DBPMAX1

Status: A Description:

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	08/30/2006	08	B06082651-001A	61 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	08/30/2006	08	B06082651-001B	12 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	05/24/2006	08	B06052214-001A	42 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	05/24/2006	08	B06052214-001B	99 UG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	11/15/2005	24	B05111105-001A	3.5 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	11/15/2005	08	B05111105-001B	244 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	11/15/2005	24	B05111105-002A	4.1 MG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	09/26/2005	08	B05091851-001A	27 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	09/26/2005	08	B05091851-001B	59 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	07/27/2005	08	B05071886-001A	47 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	06/20/2005	08	B05061505-001A	123 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	06/20/2005	08	B05061505-001B	56 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	03/21/2005	08	B05031279-001A	81 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	03/21/2005	08	B05031279-001B	49 UG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM

Avl:P

Status: A Src:

Smp Pt ID: DBPMAX1

Status: A Description:

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	12/13/2004	08	B04120956-001A	47 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	12/13/2004	08	B04120956-001B	106 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	09/01/2004	08	B04090194-004A	109 UG/L
OC	2456	TOTAL HALOACETIC ACIDS (HAA5)	RT	09/01/2004	08	B04090194-004B	63 UG/L

Fac ID: IN002 Fac Name: INTAKE MUSSELSHELL RIVER

Avl:P

Status: A Src: SW

Smp Pt ID: TOCRAW

Status: A Description: DBP COMPLIANCE

Src Typ

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	06/27/2007	08	B07062642-001A	206 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	06/27/2007	24	B07062642-001B	5.0 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	05/23/2007	08	B07052171-001A	227 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	05/23/2007	24	B07052171-001B	3.8 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	04/25/2007	08	B07042308-001A	262 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	04/25/2007	24	B07042308-001B	3.8 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	03/19/2007	08	B07031431-001A	294 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	03/19/2007	24	B07031431-001B	3.8 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	02/19/2007	08	B07021053-001A	331 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	02/19/2007	24	B07021053-001B	4.1 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	01/24/2007	08	B07011606-001A	299 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	01/24/2007	24	B07011606-001B	5.3 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	12/18/2006	24	B06121346-002A	3.9 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	12/18/2006	08	B06121346-002B	270 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	11/20/2006	08	B06111484-001A	210 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	11/20/2006	24	B06111484-001B	4.3 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	10/30/2006	24	B06102197-002A	4.2 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	09/27/2006	08	B06092199-001A	202 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	09/27/2006	24	B06092199-001B	3.7 MG/L
WQ		2920 CARBON, TOTAL ORGANIC (TOC)	RT	07/27/2006	24	B06072112-002A	5.5 MG/L
WQ	471-34-1	1927 ALKALINITY, TOTAL	RT	07/27/2006	08	B06072112-002B	213 MG/L

Fac ID: TP002 Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src: SW

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC	7440-36-0	1074 ANTIMONY	RT	03/19/2007	08	B07031482-001A	< MRL .003 MG/L
IOC	7440-38-2	1005 ARSENIC	RT	03/19/2007	08	B07031482-001A	< MRL .001 MG/L
IOC	7440-39-3	1010 BARIUM	RT	03/19/2007	08	B07031482-001A	< MRL .1 MG/L
IOC	7440-41-7	1075 BERYLLIUM	RT	03/19/2007	08	B07031482-001A	< MRL .001 MG/L
IOC	7440-43-9	1015 CADMIUM	RT	03/19/2007	08	B07031482-001A	< MRL .001 MG/L
IOC	7440-47-3	1020 CHROMIUM	RT	03/19/2007	08	B07031482-001A	< MRL .01 MG/L
IOC	7439-97-6	1035 MERCURY	RT	03/19/2007	08	B07031482-001A	< MRL .0002 MG/L
IOC	7440-02-0	1036 NICKEL	RT	03/19/2007	08	B07031482-001A	< MRL .01 MG/L
IOC	7782-49-2	1045 SELENIUM	RT	03/19/2007	08	B07031482-001A	< MRL .005 MG/L
IOC	7440-28-0	1085 THALLIUM	RT	03/19/2007	08	B07031482-001A	< MRL .001 MG/L
IOC		1038 NITRATE+NITRITE (AS N)	RT	03/19/2007	08	B07031482-001B	0.15 MG/L
OC	630-20-6	2986 1,1,1,2-TETRACHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	71-55-6	2981 1,1,1-TRICHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	79-34-5	2988 1,1,2,2-TETRACHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	79-00-5	2985 1,1,2-TRICHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	75-34-3	2978 1,1-DICHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	75-35-4	2977 1,1-DICHLOROETHYLENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	563-58-6	2410 1,1-DICHLOROPROPENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	87-61-6	2420 1,2,3-TRICHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	96-18-4	2414 1,2,3-TRICHLOROPROPANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	120-82-1	2378 1,2,4-TRICHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	95-63-6	2418 1,2,4-TRIMETHYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	107-06-2	2980 1,2-DICHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	78-87-5	2983 1,2-DICHLOROPROPANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	108-67-8	2424 1,3,5-TRIMETHYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 542-75-6	2413	1,3-DICHLOROPROPENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 71-43-2	2990	BENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 108-86-1	2993	BROMOBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 74-97-5	2430	BROMOCHLOROMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 74-83-9	2214	BROMOMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 75-00-3	2216	CHLOROETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 91-20-3	2248	NAPHTHALENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 100-42-5	2996	STYRENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 108-88-3	2991	TOLUENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	03/19/2007	08	B07031482-001C	33 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
OC 1330-20-7	2955	XYLENES	RT	03/19/2007	08	B07031482-001C	< MRL .5 UG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	08/21/2006	08	B06081857-001A	248 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	08/21/2006	24	B06081857-001B	5.7 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	08/21/2006	24	B06081857-002A	5.1 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	06/29/2006	24	B06062571-001A	4.4 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	06/29/2006	08	B06062571-002A	206 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	06/29/2006	24	B06062571-002B	4.9 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	05/24/2006	24	B06052219-001A	4.1 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	05/24/2006	24	B06052219-002A	4.1 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	05/24/2006	08	B06052219-002B	248 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	03/21/2006	24	B06031355-001A	3.9 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	03/21/2006	08	B06031355-001B	250 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	03/21/2006	24	B06031355-002A	3.5 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	02/22/2006	24	B06021387-001A	3.6 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	02/22/2006	08	B06021387-002B	287 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 95-63-6	2418	1,2,4-TRIMETHYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 542-75-6	2413	1,3-DICHLOROPROPENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 71-43-2	2990	BENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 108-86-1	2993	BROMOBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 74-97-5	2430	BROMOCHLOROMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 74-83-9	2214	BROMOMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-00-3	2216	CHLOROETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 91-20-3	2248	NAPHTHALENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 100-42-5	2996	STYRENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 108-88-3	2991	TOLUENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	02/22/2006	08	B06021434-001A	42 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 1330-20-7	2955	XYLENES	RT	02/22/2006	08	B06021434-001A	< MRL .5 UG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	02/22/2006	08	B06021434-001B	< MRL .2 UG/L
OC 94-75-7	2105	2,4-D	RT	02/22/2006	08	B06021434-001B	< MRL 1 UG/L
OC 75-99-0	2031	DALAPON	RT	02/22/2006	08	B06021434-001B	< MRL 2.5 UG/L
OC 1918-00-9	2440	DICAMBA	RT	02/22/2006	08	B06021434-001B	< MRL .25 UG/L
OC 88-85-7	2041	DINOSEB	RT	02/22/2006	08	B06021434-001B	< MRL 1 UG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	02/22/2006	08	B06021434-001B	< MRL .04 UG/L
OC 1918-02-1	2040	PICLORAM	RT	02/22/2006	08	B06021434-001B	< MRL .5 UG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 116-06-3	2047	ALDICARB	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 63-25-2	2021	CARBARYL	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 1563-66-2	2046	CARBOFURAN	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 16752-77-5	2022	METHOMYL	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	02/22/2006	24	B06021434-001C	< MRL .5 UG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	02/22/2006	08	B06021434-001D	0.15 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC 7440-38-2	1005	ARSENIC	RT	02/22/2006	08	B06021434-001E	< MRL .001 MG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 309-00-2	2356	ALDRIN	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 1912-24-9	2050	ATRAZINE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 57-74-9	2959	CHLORDANE	RT	02/22/2006	08	B06021434-001F	< MRL 1 UG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	02/22/2006	08	B06021434-001F	< MRL .5 UG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	02/22/2006	08	B06021434-001F	< MRL 2 UG/L
OC 60-57-1	2070	DIELDRIN	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 72-20-8	2005	ENDRIN	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 76-44-8	2065	HEPTACHLOR	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 118-74-1	2274	HEXACHLORO BENZENE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 51218-45-2	2045	METOLACHLOR	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 1918-16-7	2077	PROPACHLOR	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 122-34-9	2037	SIMAZINE	RT	02/22/2006	08	B06021434-001F	< MRL .1 UG/L
OC 8001-35-2	2020	TOXAPHENE	RT	02/22/2006	08	B06021434-001F	< MRL 2 UG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	01/23/2006	24	B06011336-001A	3.8 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	01/23/2006	24	B06011336-002A	4.5 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	01/23/2006	08	B06011336-002B	257 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	12/20/2005	24	B05121196-001A	5.3 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	12/20/2005	08	B05121196-001B	259 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	12/20/2005	24	B05121196-002A	4.7 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	10/26/2005	24	B05101667-001A	3.9 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	10/26/2005	24	B05101667-002A	4.1 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	10/26/2005	08	B05101667-003A	220 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	09/26/2005	24	B05091846-001A	4.92 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	09/26/2005	24	B05091846-002A	5.49 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	09/26/2005	08	B05091846-002B	250 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	08/16/2005	24	B05081282-001A	4.16 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	08/16/2005	24	B05081282-002A	4.67 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	08/16/2005	08	B05081282-003A	238 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	07/12/2005	24	B05070772-001A	5.40 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	07/12/2005	24	B05070772-002A	4.82 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	07/12/2005	08	B05070772-003A	236 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	06/20/2005	24	B05061481-001A	4.95 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	06/20/2005	24	B05061481-002A	5.68 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	06/20/2005	08	B05061481-002B	234 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	05/23/2005	24	B05051684-001A	4.55 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	05/23/2005	24	B05051684-002A	4.99 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	05/23/2005	08	B05051684-002B	237 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	04/26/2005	24	B05041843-001A	5.49 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	04/26/2005	24	B05041843-002A	6.21 MG/L
WQ 471-34-1	1927	ALKALINITY, TOTAL	RT	04/26/2005	08	B05041843-002B	287 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	03/21/2005	24	B05031278-001A	2.52 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	03/21/2005	24	B05031278-002A	3.36 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 95-63-6	2418	1,2,4-TRIMETHYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 542-75-6	2413	1,3-DICHLOROPROPENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 71-43-2	2990	BENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 108-86-1	2993	BROMOBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 74-97-5	2430	BROMOCHLOROMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 74-83-9	2214	BROMOMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-00-3	2216	CHLOROETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 91-20-3	2248	NAPHTHALENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 100-42-5	2996	STYRENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 108-88-3	2991	TOLUENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	03/21/2005	08	B05031280-001A	33 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
OC 1330-20-7	2955	XYLENES	RT	03/21/2005	08	B05031280-001A	< MRL .5 UG/L
IOC 7440-36-0	1074	ANTIMONY	RT	03/21/2005	08	B05031280-001B	< MRL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	03/21/2005	08	B05031280-001B	< MRL .005 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	03/21/2005	08	B05031280-001B	< MRL .001 MG/L
IOC 7440-02-0	1036	NICKEL	RT	03/21/2005	08	B05031280-001B	< MRL .01 MG/L
IOC 7440-28-0	1085	THALLIUM	RT	03/21/2005	08	B05031280-001B	< MRL .001 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	03/21/2005	08	B05031280-001C	< MRL .05 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	02/25/2004	08	B04021224-001E	< MRL .005 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	02/25/2004	08	B04021224-001F	< MRL .05 MG/L
IOC 7440-36-0	1074	ANTIMONY	RT	03/28/2003	08	B03031247-001-I502	< MDL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	03/28/2003	08	B03031247-001-I502	< MDL .005 MG/L
IOC 7440-39-3	1010	BARIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .1 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .001 MG/L
IOC 7440-43-9	1015	CADMIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .001 MG/L
IOC 7440-47-3	1020	CHROMIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .01 MG/L
IOC 7439-97-6	1035	MERCURY	RT	03/28/2003	08	B03031247-001-I502	< MDL .0002 MG/L
IOC 7440-02-0	1036	NICKEL	RT	03/28/2003	08	B03031247-001-I502	< MDL .01 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	03/28/2003	08	B03031247-001-I502	< MDL .05 MG/L
IOC 7782-49-2	1045	SELENIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .005 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC 7440-28-0	1085	THALLIUM	RT	03/28/2003	08	B03031247-001-I502	< MDL .001 MG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	03/28/2003	08	B03031247-001-S502	< MDL .0002 MG/L
OC 94-75-7	2105	2,4-D	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	03/28/2003	08	B03031247-001-S502	< MDL .0002 MG/L
OC 116-06-3	2047	ALDICARB	RT	03/28/2003	08	B03031247-001-S502	< MDL .0005 MG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0005 MG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0008 MG/L
OC 309-00-2	2356	ALDRIN	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 1912-24-9	2050	ATRAZINE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	03/28/2003	08	B03031247-001-S502	< MDL .00002 MG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 63-25-2	2021	CARBARYL	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 1563-66-2	2046	CARBOFURAN	RT	03/28/2003	08	B03031247-001-S502	< MDL .0009 MG/L
OC 57-74-9	2959	CHLORDANE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0002 MG/L
OC 75-99-0	2031	DALAPON	RT	03/28/2003	08	B03031247-001-S502	< MDL .1 MG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0006 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0006 MG/L
OC 1918-00-9	2440	DICAMBA	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 60-57-1	2070	DIELDIN	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 88-85-7	2041	DINOSEB	RT	03/28/2003	08	B03031247-001-S502	< MDL .0002 MG/L
OC 72-20-8	2005	ENDRIN	RT	03/28/2003	08	B03031247-001-S502	< MDL .00001 MG/L
OC 76-44-8	2065	HEPTACHLOR	RT	03/28/2003	08	B03031247-001-S502	< MDL .00004 MG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	03/28/2003	08	B03031247-001-S502	< MDL .00002 MG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 16752-77-5	2022	METHOMYL	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 51218-45-2	2045	METOLACHLOR	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	03/28/2003	08	B03031247-001-S502	< MDL .002 MG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	03/28/2003	08	B03031247-001-S502	< MDL .00004 MG/L
OC 1918-02-1	2040	PICLORAM	RT	03/28/2003	08	B03031247-001-S502	< MDL .0001 MG/L
OC 1918-16-7	2077	PROPACHLOR	RT	03/28/2003	08	B03031247-001-S502	< MDL 0 MG/L
OC 122-34-9	2037	SIMAZINE	RT	03/28/2003	08	B03031247-001-S502	< MDL .00007 MG/L
OC 8001-35-2	2020	TOXAPHENE	RT	03/28/2003	08	B03031247-001-S502	< MDL .001 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC	2419	1,2,3 - TRIMETHYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 71-43-2	2990	BENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 108-86-1	2993	BROMOBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 74-83-9	2214	BROMOMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 75-00-3	2216	CHLOROETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 10061-02-6	2228	CIS-1,3-DICHLOROPROPENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 74-95-3	2408	DIBROMOMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 91-20-3	2248	NAPHTHALENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 106-46-7	2969	NAPHTHALENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 100-42-5	2996	STYRENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 108-88-3	2991	TOLUENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	03/28/2003	08	B03031247-001-V502	33.0 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 10061-02-6	2224	TRANS-1,3-DICHLOROPROPENE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	03/28/2003	08	B03031247-001-V502	< MDL 0 MG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 108-38-3	2995	XYLENE, META	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 106-42-3	2962	XYLENE, PARA	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
OC 1330-20-7	2955	XYLENES	RT	03/28/2003	08	B03031247-001-V502	< MDL .0005 MG/L
RA	4000	GROSS ALPHA, INCLDNG RA, EXCLDNG R	RT	04/16/2002	08	B02040806-001-R502	< MDL 3 PIC/L
RA	4010	RADIUM, COMBINED (226, 228)	RT	04/16/2002	08	B02040806-001-R502	< MDL 1 PIC/L
RA 13982-63-3	4020	RADIUM-226	RT	04/16/2002	08	B02040806-001-R502	< MDL 1 PIC/L
RA 15262-20-1	4030	RADIUM-228	RT	04/16/2002	08	B02040806-001-R502	< MDL 1 PIC/L
RA 7440-61-1	4006	URANIUM, COMBINED	RT	04/16/2002	08	B02040806-001-R502	0.0074 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC	2419	1,2,3 - TRIMETHYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 71-43-2	2990	BENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 108-86-1	2993	BROMOBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 74-83-9	2214	BROMOMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 75-00-3	2216	CHLOROETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 10061-02-6	2228	CIS-1,3-DICHLOROPROPENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 75-09-2	2964	DICHLOROMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 91-20-3	2248	NAPHTHALENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 100-42-5	2996	STYRENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 108-88-3	2991	TOLUENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	03/26/2002	08	B02030965-001-V502	32 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 10061-02-6	2224	TRANS-1,3-DICHLOROPROPENE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	03/26/2002	08	B02030965-001-V502	< MDL 0 MG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 108-38-3	2995	XYLENE, META	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 106-42-3	2962	XYLENE, PARA	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
OC 1330-20-7	2955	XYLENES	RT	03/26/2002	08	B02030965-001-V502	< MDL .0005 MG/L
IOC 7440-36-0	1074	ANTIMONY	RT	03/18/2002	08	B02030653-001-I502	< MDL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	03/18/2002	08	B02030653-001-I502	< MDL .005 MG/L
IOC 7440-39-3	1010	BARIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .1 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .001 MG/L
IOC 7440-43-9	1015	CADMIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .001 MG/L
IOC 7440-47-3	1020	CHROMIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .01 MG/L
IOC 16984-48-8	1025	FLUORIDE	RT	03/18/2002	08	B02030653-001-I502	0.32 MG/L
IOC 7439-97-6	1035	MERCURY	RT	03/18/2002	08	B02030653-001-I502	< MDL .0002 MG/L
IOC 7440-02-0	1036	NICKEL	RT	03/18/2002	08	B02030653-001-I502	< MDL .01 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	03/18/2002	08	B02030653-001-I502	< MDL .05 MG/L
IOC 7782-49-2	1045	SELENIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .005 MG/L
IOC 7440-28-0	1085	THALLIUM	RT	03/18/2002	08	B02030653-001-I502	< MDL .001 MG/L
OC 1746-01-6	2063	2,3,7,8 TCDD (DIOXIN)	RT	03/13/2001	08	001-01-51857-S502	< MDL 0 MG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	03/13/2001	08	001-01-51857-S502	< MDL .0002 MG/L
OC 94-75-7	2105	2,4-D	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	03/13/2001	08	001-01-51857-S502	< MDL .0002 MG/L
OC 116-06-3	2047	ALDICARB	RT	03/13/2001	08	001-01-51857-S502	< MDL .0005 MG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0005 MG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0008 MG/L
OC 309-00-2	2356	ALDRIN	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 1912-24-9	2050	ATRAZINE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 63-25-2	2021	CARBARYL	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 1563-66-2	2046	CARBOFURAN	RT	03/13/2001	08	001-01-51857-S502	< MDL .0009 MG/L
OC 57-74-9	2959	CHLORDANE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0002 MG/L
OC 75-99-0	2031	DALAPON	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0006 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0006 MG/L
OC 96-12-8	2931	DIBROMOCHLOROPROPANE (DBCP)	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 1918-00-9	2440	DICAMBA	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 60-57-1	2070	DIELDRLN	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 88-85-7	2041	DINOSEB	RT	03/13/2001	08	001-01-51857-S502	< MDL .0002 MG/L
OC 85-00-7	2032	DIQUAT	RT	03/13/2001	08	001-01-51857-S502	< MDL .0004 MG/L
OC 145-73-3	2033	ENDOTHALL	RT	03/13/2001	08	001-01-51857-S502	< MDL .009 MG/L
OC 72-20-8	2005	ENDRLN	RT	03/13/2001	08	001-01-51857-S502	< MDL .00001 MG/L
OC 106-93-4	2946	ETHYLENE DIBROMIDE (EDB)	RT	03/13/2001	08	001-01-51857-S502	< MDL .00001 MG/L
OC 1071-83-6	2034	GLYPHOSATE	RT	03/13/2001	08	001-01-51857-S502	< MDL .006 MG/L
OC 76-44-8	2065	HEPTACHLOR	RT	03/13/2001	08	001-01-51857-S502	< MDL .00004 MG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	03/13/2001	08	001-01-51857-S502	< MDL .00002 MG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 16752-77-5	2022	METHOMYL	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 51218-45-2	2045	METOLACHLOR	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	03/13/2001	08	001-01-51857-S502	< MDL .002 MG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	03/13/2001	08	001-01-51857-S502	< MDL .00004 MG/L
OC 1918-02-1	2040	PICLORAM	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 1336-36-3	2383	POLYCHLORINATED BIPHENYLS (PCB)	RT	03/13/2001	08	001-01-51857-S502	< MDL .0001 MG/L
OC 1918-16-7	2077	PROPACHLOR	RT	03/13/2001	08	001-01-51857-S502	< MDL .1 MG/L
OC 122-34-9	2037	SIMAZINE	RT	03/13/2001	08	001-01-51857-S502	< MDL .00007 MG/L
OC 8001-35-2	2020	TOXAPHENE	RT	03/13/2001	08	001-01-51857-S502	< MDL .001 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL 0 MG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC	2419	1,2,3 - TRIMETHYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 71-43-2	2990	BENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 108-86-1	2993	BROMOBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 74-83-9	2214	BROMOMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-00-3	2216	CHLOROETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 10061-02-6	2228	CIS-1,3-DICHLOROPROPENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 91-20-3	2248	NAPHTHALENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 100-42-5	2996	STYRENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 108-88-3	2991	TOLUENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 10061-02-6	2224	TRANS-1,3-DICHLOROPROPENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 108-38-3	2995	XYLENE, META	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 106-42-3	2962	XYLENE, PARA	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
OC 1330-20-7	2955	XYLENES	RT	03/13/2001	08	001-01-51857-V502	< MDL .0005 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	03/13/2001	08	01-51857-1-N502	< MRL .005 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	03/13/2001	08	01-51857-1-N502	0.18 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	06/19/2000	MIG	C0006-1866-I502	0.001 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	06/19/2000	MIG	C0006-1866-I502	0.01 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 95-63-6	2418	1,2,4-TRIMETHYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 108-86-1	2993	BROMOBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 74-83-9	2214	BROMOMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-00-3	2216	CHLOROETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000002 MG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 10061-02-6	2228	CIS-1,3-DICHLOROPROPENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	0.0155 MG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 91-20-3	2248	NAPHTHALENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 100-42-5	2996	STYRENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 108-88-3	2991	TOLUENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Fac ID: TP002

Fac Name: TP FOR MUSSELSHELL RIVER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP TP MUSSELSHELL R

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 108-38-3	2995	XYLENE, META	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 106-42-3	2962	XYLENE, PARA	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 1330-20-7	2955	XYLENES	RT	06/19/2000	MIG	C0006-1866-V502	< MRL .0000005 MG/L
OC 71-43-2	2990	BENZENE	RT	06/19/2000	MIG2	C0006-1866EP502V	< MRL .0005 MG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	06/19/2000	MIG2	C0006-1866EP502V	< MRL .0005 MG/L
OC 10061-02-6	2224	TRANS-1,3-DICHLOROPROPENE	RT	06/19/2000	MIG2	C0006-1866EP502V	< MRL .0005 MG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	06/19/2000	MIG2	C0006-1866EP502V	< MRL .0005 MG/L

Smp Pt ID: TOCFIN

Status: A Description: DBP COMPLIANCE

Src Typ

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	06/27/2007	24	B07062642-002A	4.3 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	05/23/2007	24	B07052171-002A	3.1 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	04/25/2007	24	B07042308-002A	3.4 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	03/19/2007	24	B07031431-002A	3.0 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	02/19/2007	24	B07021053-002A	3.5 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	01/24/2007	24	B07011606-002A	4.6 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	12/18/2006	24	B06121346-001A	3.4 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	11/20/2006	24	B06111484-002A	3.8 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	10/30/2006	24	B06102197-003A	3.8 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	09/27/2006	24	B06092199-002A	3.3 MG/L
WQ	2920	CARBON, TOTAL ORGANIC (TOC)	RT	07/27/2006	24	B06072112-001A	4.1 MG/L

Lead & Copper Sample Summaries

FROM 01/01/1992 TO 07/26/2007

Period Begin	Period End	Collection End	Type	Period Name	Code	Count	Measure	UoM
01/01/2002	12/31/2004	09/09/2004	3Y	3YR 02-04	PB90	5	.0055	MG/L
01/01/2002	12/31/2004	09/09/2004	3Y	3YR 02-04	CU90	5	.01	MG/L
01/01/1999	12/31/2001	07/06/1999	3Y	3YR 99-01	PB90	5	.001	MG/L
01/01/1999	12/31/2001	07/06/1999	3Y	3YR 99-01	CU90	5	.04	MG/L
01/01/1996	12/31/1996		YR	1YR 96	PB90	0	.001	MG/L
01/01/1996	12/31/1996		YR	1YR 96	CU90	0	.01	MG/L
01/01/1995	12/31/1995		YR	1YR 95	PB90	0	.002	MG/L
01/01/1995	12/31/1995		YR	1YR 95	CU90	0	.02	MG/L
01/01/1994	06/30/1994		6M	1ST 6MO 94	PB90	0	.007	MG/L
01/01/1994	06/30/1994		6M	1ST 6MO 94	CU90	0	.05	MG/L
07/01/1993	12/31/1993		6M	2ND 6MO 93	PB90	0	.013	MG/L
07/01/1993	12/31/1993		6M	2ND 6MO 93	CU90	0	.08	MG/L

Violations & Enforcements

FROM 01/01/2000 TO 07/26/2007

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
07/26/2007	01/01/2007	03/31/2007	2007	3	27	MJ	MON	CDBP	CDS DISINFECTANT BPS
2007	4294	07/31/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4293	07/31/2007	SIA		ST VIOLATION/REMINDER NOTICE				
07/26/2007	04/01/2007	06/30/2007	2007	3	27	MJ	MON	CDBP	CDS DISINFECTANT BPS
2007	4292	07/31/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4291	07/31/2007	SIA		ST VIOLATION/REMINDER NOTICE				
07/02/2007	05/01/2007	05/31/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4290	07/02/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4289	07/02/2007	SIA		ST VIOLATION/REMINDER NOTICE				



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
07/02/2007	05/01/2007	05/31/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4290	07/02/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4289	07/02/2007	SIA		ST VIOLATION/REMINDER NOTICE				
07/02/2007	05/01/2007	05/31/2007	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4290	07/02/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4289	07/02/2007	SIA		ST VIOLATION/REMINDER NOTICE				
06/07/2007	04/01/2007	04/30/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4288	06/12/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4287	06/12/2007	SIA		ST VIOLATION/REMINDER NOTICE				
06/07/2007	04/01/2007	04/30/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4288	06/12/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4287	06/12/2007	SIA		ST VIOLATION/REMINDER NOTICE				
06/07/2007	04/01/2007	04/30/2007	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4288	06/12/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4287	06/12/2007	SIA		ST VIOLATION/REMINDER NOTICE				
04/24/2007	01/01/2006	03/31/2006	2007	3	27	MJ	MON	CDBP	CDS DISINFECTANT BPS
2007	4286	04/29/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4285	04/29/2007	SIA		ST VIOLATION/REMINDER NOTICE				
04/24/2007	10/01/2006	12/31/2006	2007	3	27	MJ	MON	CDBP	CDS DISINFECTANT BPS
2007	4284	04/29/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4283	04/29/2007	SIA		ST VIOLATION/REMINDER NOTICE				
04/06/2007	02/01/2007	02/28/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4282	04/06/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4281	04/06/2007	SIA		ST VIOLATION/REMINDER NOTICE				
04/06/2007	02/01/2007	02/28/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4280	04/06/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4279	04/06/2007	SIA		ST VIOLATION/REMINDER NOTICE				
04/06/2007	02/01/2007	02/28/2007	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4278	04/06/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4277	04/06/2007	SIA		ST VIOLATION/REMINDER NOTICE				
03/21/2007	01/01/2007	01/31/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4272	03/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4271	03/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
03/21/2007	01/01/2007	01/31/2007	2007	3	36	MJ	MON	0999	CHLORINE
2007	4275	03/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4276	03/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
03/21/2007	01/01/2007	01/31/2007	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4274	03/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4273	03/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
02/21/2007	11/01/2006	11/30/2006	2007	3	36	MJ	MON	0999	CHLORINE
2007	4267	02/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4266	02/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
02/21/2007	11/01/2006	11/30/2006	2007	3	36	MJ	MON	0999	CHLORINE



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(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
2007	4269	02/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4268	02/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
02/21/2007	11/01/2006	11/30/2006	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4265	02/21/2007	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4264	02/21/2007	SIA		ST VIOLATION/REMINDER NOTICE				
02/05/2007	07/01/2005	06/30/2006	2007	3	71	MJ	RPT	7000	CONSUMER CONFIDENCE REPORTS RUL
2007	4270	03/07/2007	SOX		ST COMPLIANCE ACHIEVED				
2007	4263	02/05/2007	SIA		ST VIOLATION/REMINDER NOTICE				
11/29/2006	10/01/2006	10/31/2006	2007	3	36	MJ	MON	0999	CHLORINE
2007	4260	01/29/2007	SOX		ST COMPLIANCE ACHIEVED				
2007	4259	11/29/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4258	11/29/2006	SIA		ST VIOLATION/REMINDER NOTICE				
11/29/2006	10/01/2006	10/31/2006	2007	3	36	MJ	MON	0999	CHLORINE
2007	4262	01/29/2007	SOX		ST COMPLIANCE ACHIEVED				
2007	4257	11/29/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4256	11/29/2006	SIA		ST VIOLATION/REMINDER NOTICE				
11/29/2006	10/01/2006	10/31/2006	2007	3	38	MJ	MON	0100	TURBIDITY
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2007	4255	11/29/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2007	4254	11/29/2006	SIA		ST VIOLATION/REMINDER NOTICE				
08/02/2006	06/01/2006	06/30/2006	2006	3	36	MJ	MON	0999	CHLORINE
2006	4246	08/07/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2006	4245	08/03/2006	SIA		ST VIOLATION/REMINDER NOTICE				
08/02/2006	06/01/2006	06/30/2006	2006	3	36	MJ	MON	0999	CHLORINE
2006	4250	08/07/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2006	4249	08/03/2006	SIA		ST VIOLATION/REMINDER NOTICE				
08/02/2006	06/01/2006	06/30/2006	2006	3	38	MJ	MON	0100	TURBIDITY
2006	4242	08/07/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2006	4241	08/03/2006	SIA		ST VIOLATION/REMINDER NOTICE				
07/17/2006	05/01/2006	05/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
2007	4217	07/10/2006	SOX		ST COMPLIANCE ACHIEVED				
2007	4216	07/28/2006	SIF		ST PUBLIC NOTIF RECEIVED				
2006	4215	07/22/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2006	4214	07/18/2006	SIA		ST VIOLATION/REMINDER NOTICE				
07/17/2006	05/01/2006	05/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
2007	4221	07/10/2006	SOX		ST COMPLIANCE ACHIEVED				
2007	4220	07/10/2006	SIF		ST PUBLIC NOTIF RECEIVED				
2006	4219	07/22/2006	SIE		ST PUBLIC NOTIF REQUESTED				
2006	4218	07/18/2006	SIA		ST VIOLATION/REMINDER NOTICE				
07/17/2006	05/01/2006	05/31/2006	2006	3	38	MJ	MON	0100	TURBIDITY
2007	4225	07/10/2006	SOX		ST COMPLIANCE ACHIEVED				
2007	4224	07/10/2006	SIF		ST PUBLIC NOTIF RECEIVED				



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(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
	2006	4223	07/22/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4222	07/18/2006	SIA					ST VIOLATION/REMINDER NOTICE
07/11/2006	01/01/2006	01/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2007	4240	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2007	4239	07/28/2006	SIF					ST PUBLIC NOTIF RECEIVED
	2006	4238	07/16/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4237	07/12/2006	SIA					ST VIOLATION/REMINDER NOTICE
07/11/2006	01/01/2006	01/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2007	4236	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2007	4235	07/28/2006	SIF					ST PUBLIC NOTIF RECEIVED
	2006	4234	07/16/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4233	07/12/2006	SIA					ST VIOLATION/REMINDER NOTICE
07/06/2006	04/01/2006	04/30/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2006	4197	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2007	4196	07/10/2006	SIF					ST PUBLIC NOTIF RECEIVED
	2006	4195	07/11/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4194	07/07/2006	SIA					ST VIOLATION/REMINDER NOTICE
07/06/2006	04/01/2006	04/30/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2006	4205	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2007	4204	07/28/2006	SIF					ST PUBLIC NOTIF RECEIVED
	2006	4203	07/11/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4202	07/07/2006	SIA					ST VIOLATION/REMINDER NOTICE
07/05/2006	04/01/2006	04/30/2006	2006	3	38	MJ	MON	0100	TURBIDITY
	2006	4201	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2007	4200	07/28/2006	SIF					ST PUBLIC NOTIF RECEIVED
	2006	4199	07/10/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4198	07/06/2006	SIA					ST VIOLATION/REMINDER NOTICE
06/19/2006	03/01/2006	03/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2006	4231	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2006	4193	06/19/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4192	06/19/2006	SIA					ST VIOLATION/REMINDER NOTICE
06/19/2006	03/01/2006	03/31/2006	2006	3	36	MJ	MON	0999	CHLORINE
	2006	4213	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2006	4211	06/24/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4210	06/20/2006	SIA					ST VIOLATION/REMINDER NOTICE
06/19/2006	03/01/2006	03/31/2006	2006	3	38	MJ	MON	0100	TURBIDITY
	2006	4232	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2006	4191	06/19/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4190	06/19/2006	SIA					ST VIOLATION/REMINDER NOTICE
06/08/2006	01/01/2006	01/31/2006	2006	3	38	MJ	MON	0100	TURBIDITY
	2006	4209	07/28/2006	SOX					ST COMPLIANCE ACHIEVED
	2006	4208	07/28/2006	SIF					ST PUBLIC NOTIF RECEIVED



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
	2006	4207	06/13/2006	SIE					ST PUBLIC NOTIF REQUESTED
	2006	4206	06/09/2006	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	01/01/2004	01/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4167	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4166	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	02/01/2004	02/29/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4175	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4174	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	03/01/2004	03/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4177	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4176	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	04/01/2004	04/30/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4183	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4182	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	05/01/2004	05/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4171	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4170	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	06/01/2004	06/30/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4169	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4168	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	07/01/2004	07/31/2004	2005	3	27	MJ	MON	1927	ALKALINITY, TOTAL
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4185	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4184	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	07/01/2004	07/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4159	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4158	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	07/01/2004	07/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4157	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4156	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE
02/14/2005	08/01/2004	08/31/2004	2005	3	27	MJ	MON	1927	ALKALINITY, TOTAL
	2007	4253	11/06/2006	SOX					ST COMPLIANCE ACHIEVED
	2005	4189	02/24/2005	SIE					ST PUBLIC NOTIF REQUESTED
	2005	4188	02/24/2005	SIA					ST VIOLATION/REMINDER NOTICE



PWSID: MT0000290 Name: MELSTONE TOWN OF

(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
02/14/2005	08/01/2004	08/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4181	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4180	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	08/01/2004	08/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4179	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4178	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	09/01/2004	09/30/2004	2005	3	27	MJ	MON	1927	ALKALINITY, TOTAL
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4187	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4186	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	09/01/2004	09/30/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4163	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4162	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	09/01/2004	09/30/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4161	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4160	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	10/01/2004	10/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4173	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4172	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	11/01/2004	11/30/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4155	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4154	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				
02/14/2005	12/01/2004	12/31/2004	2005	3	27	MJ	MON	2920	CARBON, TOTAL ORGANIC (TOC)
2007	4253	11/06/2006	SOX		ST COMPLIANCE ACHIEVED				
2005	4165	02/24/2005	SIE		ST PUBLIC NOTIF REQUESTED				
2005	4164	02/24/2005	SIA		ST VIOLATION/REMINDER NOTICE				

RAW WATER POND - RIPRAP

Height of Riprap	10	
Riprap Width	31.6	ft

Riprap Length (1)	216	ft
Riprap Length (2)	216	ft
Riprap Length (3)	216	ft
Riprap Length (4)	216	ft
Total Riprap Length	864	ft

Riprap Depth	1.0	ft
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Riprap Volume of Side Slope	1,012	cy
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TOTAL RIPRAP VOLUME	1,012	CY
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Use for Cost Estimates	1,110	CY
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July 31, 2008

Kate Miller
Treasure State Endowment Program
Montana Department of Commerce
P.O. Box 200523
Helena, MT 59620-0523

RE: Town of Melstone - Draft Engineering Review Report Form

Dear Kate:

This letter is written on behalf of the Town of Melstone as a response to the Draft Engineering Review Report Form prepared by the Montana Department of Commerce for their Water Project. The review appears to be very thorough, and it appears that the MDOC engineering staff has a complete understanding of the proposed project. We have only a few minor comments, which are listed below (TSEP comment is in *italics* followed by our response in plain text).

TSEP Statutory Priority #1, Health and Safety

2. We would also like to add that the existing water treatment plant is in very poor condition. It is just a matter of time before the plant fails completely. When the plant fails, the Town will not be able to treat its raw water creating a very serious health and safety problem including potential for illness and/or disease outbreak.
5. In addition to the violations noted, the Town also violates the DEQ 1 requirement for a complete dual train and the US EPA's Filter Backwash Recycle Rule, both of which were established as a measure to help protect the health and safety of the public.
8. *The system was metered in 2005 but has yet to begin to charge based on water usage. Thus the system is essentially still operating as an unmetered system. This may account for why the average day demand, at 197 gpcd, is higher than typical metered communities. The PER notes that the Town is committed to a new rate schedule based upon metered usage to go into effect in June of 2008.*

The Town is now charging based upon metered usage as indicated in the Resolution 2008-5, which is included in Appendix L of the PER. Because of this, we would suggest rewording the above as follows:

The system was metered in 2005 but at the time of the PER had not yet to begin to charge based on water usage. Thus the system was essentially still operating as an unmetered system. This may account for why the average day demand, at 197 gpcd, is higher than typical metered communities. The PER notes that the Town has committed to a new rate schedule based upon metered usage to go into effect in June of 2008.

TSEP Statutory Priority #3, Technical Design

6. *In the cost estimate for alternative 2c on Table 7.9, it is not clear as to why a river crossing (\$15,000) is included in the estimate because it appears as if 2c connects with the existing five-mile transmission main that should already have a river crossing.*

The cost for the river crossing was inadvertently carried over from the previous cost estimates and should not have been included in the costs for Alternative 2c. Please note that this is a very minor portion of the almost \$1.7 million direct construction cost for the entire alternative.

8. *The system was metered in 2005 but has yet to begin to charge based on water usage.*

The system was metered in 2005 but at the time of the PER had not yet to begin to charge based on water usage. However, the Town has committed to a new rate schedule based upon metered usage to go into effect in June of 2008 (please see Resolution 2008-5 included in Appendix L).

Thank you for your detailed review of the PER and for the opportunity to comment on the review. We hope that you will consider our relatively minor responses during preparation of the final engineering review report form. The Town of Melstone looks forward to the opportunity to work with the Treasure State Endowment Program.

Sincerely,

Great West Engineering, Inc.

Crystal Bennett, PE
Project Engineer

Cc: Tim DeJeagher, Town of Melstone

· WARNING -----

The data you have obtained from this automated U.S. Geological Survey database
have not received Director's approval and as such are provisional and subject to
revision. The data are released on the condition that neither the USGS nor the
United States Government may be held liable for any damages resulting from its use.
Additional info: <http://waterdata.usgs.gov/nwis/help/?provisional>

File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info

Contact: gs-w_support_nwisweb@usgs.gov
retrieved: 2007-07-27 13:21:05 EDT

Data for the following site(s) are contained in this file
USGS 06127500 Musselshell River at Musselshell MT

#

provided for site 06127500

DD parameter statistic Description
01 00060 00003 Discharge, cubic feet per second (Mean)
03 00065 00003 Gage height, feet (Mean)

Data-value qualification codes included in this output:
A Approved for publication -- Processing and review completed.
P Provisional data subject to revision.
e Value has been estimated.
#

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	5/3/1985	18			18
USGS	5/4/1985	19			19
USGS	6/13/1985	14			14
USGS	6/14/1985	8.7		8.7	8.7
USGS	6/15/1985	7.1		7.1	7.1
USGS	6/16/1985	5.2		5.2	5.2
USGS	6/17/1985	4	4	4	4
USGS	6/18/1985	3.7	3.7	3.7	3.7
USGS	6/19/1985	4.4	4.4	4.4	4.4
USGS	6/20/1985	16			16
USGS	7/14/1985	10			10
USGS	7/15/1985	4.8	4.8	4.8	4.8
USGS	7/16/1985	3.3	3.3	3.3	3.3
USGS	7/17/1985	3.1	3.1	3.1	3.1
USGS	7/18/1985	2.1	2.1	2.1	2.1
USGS	7/19/1985	1.4	1.4	1.4	1.4
USGS	7/20/1985	1.3	1.3	1.3	1.3
USGS	7/21/1985	1.9	1.9	1.9	1.9
USGS	7/22/1985	2.6	2.6	2.6	2.6
USGS	7/23/1985	2.7	2.7	2.7	2.7
USGS	7/24/1985	2.8	2.8	2.8	2.8
USGS	7/25/1985	2.6	2.6	2.6	2.6
USGS	7/26/1985	2.3	2.3	2.3	2.3

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	7/27/1985	2	2	2	2
USGS	7/28/1985	2	2	2	2
USGS	7/29/1985	3.3	3.3	3.3	3.3
USGS	7/30/1985	3.6	3.6	3.6	3.6
USGS	7/31/1985	3	3	3	3
USGS	8/1/1985	4.6	4.6	4.6	4.6
USGS	8/2/1985	2.8	2.8	2.8	2.8
USGS	8/3/1985	11			11
USGS	8/4/1985	17			17
USGS	8/5/1985	19			19
USGS	8/25/1985	19			19
USGS	8/26/1985	19			19
USGS	8/27/1985	16			16
USGS	8/28/1985	18			18
USGS	9/11/1985	19			19
USGS	9/12/1985	19			19
USGS	9/13/1985	18			18
USGS	9/14/1985	18			18
USGS	9/15/1985	21			
USGS	9/16/1985	20			
USGS	9/17/1985	18			18
USGS	9/18/1985	20			
USGS	9/19/1985	20			
USGS	9/20/1985	20			
USGS	9/21/1985	20			
USGS	9/22/1985	18			18
USGS	9/23/1985	15			15
USGS	9/24/1985	19			19
USGS	9/25/1985	19			19
USGS	9/26/1985	18			18
USGS	9/27/1985	16			16
USGS	9/28/1985	15			15
USGS	9/29/1985	18			18
USGS	9/30/1985	19			19
USGS	10/1/1985	22			
USGS	10/2/1985	18			18
USGS	10/3/1985	16			16
USGS	10/4/1985	18			18
USGS	10/5/1985	18			18
USGS	4/27/1987	14			14
USGS	4/28/1987	12			12
USGS	4/29/1987	13			13
USGS	4/30/1987	11			11
USGS	5/1/1987	8.1		8.1	8.1
USGS	5/2/1987	11			11
USGS	5/3/1987	10			10
USGS	5/4/1987	45			
USGS	5/5/1987	96			
USGS	5/6/1987	90			
USGS	5/7/1987	70			

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	5/8/1987	55			
USGS	5/9/1987	25			
USGS	5/10/1987	4.6	4.6	4.6	4.6
USGS	5/11/1987	2.8	2.8	2.8	2.8
USGS	5/12/1987	1.6	1.6	1.6	1.6
USGS	5/13/1987	1.3	1.3	1.3	1.3
USGS	5/14/1987	1.1	1.1	1.1	1.1
USGS	5/15/1987	1.2	1.2	1.2	1.2
USGS	5/16/1987	1.9	1.9	1.9	1.9
USGS	5/17/1987	3.7	3.7	3.7	3.7
USGS	7/8/1988	7.2		7.2	7.2
USGS	7/9/1988	2	2	2	2
USGS	7/10/1988	3.4	3.4	3.4	3.4
USGS	7/11/1988	3.5	3.5	3.5	3.5
USGS	7/12/1988	2.7	2.7	2.7	2.7
USGS	7/13/1988	2.4	2.4	2.4	2.4
USGS	7/14/1988	2.2	2.2	2.2	2.2
USGS	7/15/1988	3.1	3.1	3.1	3.1
USGS	7/16/1988	6.6		6.6	6.6
USGS	7/17/1988	6.1		6.1	6.1
USGS	7/18/1988	4.1	4.1	4.1	4.1
USGS	7/19/1988	2.9	2.9	2.9	2.9
USGS	7/20/1988	6.7		6.7	6.7
USGS	7/21/1988	3.5	3.5	3.5	3.5
USGS	7/22/1988	1.5	1.5	1.5	1.5
USGS	7/23/1988	1.7	1.7	1.7	1.7
USGS	7/24/1988	3.2	3.2	3.2	3.2
USGS	7/25/1988	3.1	3.1	3.1	3.1
USGS	7/26/1988	2.8	2.8	2.8	2.8
USGS	7/27/1988	2.9	2.9	2.9	2.9
USGS	7/28/1988	3.3	3.3	3.3	3.3
USGS	7/29/1988	9.8		9.8	9.8
USGS	8/21/1988	16			16
USGS	8/22/1988	14			14
USGS	8/23/1988	12			12
USGS	8/24/1988	10			10
USGS	8/25/1988	8.9		8.9	8.9
USGS	8/26/1988	8		8	8
USGS	8/27/1988	6.2		6.2	6.2
USGS	8/28/1988	5.6		5.6	5.6
USGS	8/29/1988	5		5	5
USGS	8/30/1988	4.6	4.6	4.6	4.6
USGS	8/31/1988	4.2	4.2	4.2	4.2
USGS	9/1/1988	3.5	3.5	3.5	3.5
USGS	9/2/1988	3.1	3.1	3.1	3.1
USGS	9/3/1988	2.6	2.6	2.6	2.6
USGS	9/4/1988	2.1	2.1	2.1	2.1
USGS	9/5/1988	1.7	1.7	1.7	1.7
USGS	9/6/1988	1.5	1.5	1.5	1.5
USGS	9/7/1988	1.2	1.2	1.2	1.2

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	9/8/1988	0.99	0.99	0.99	0.99
USGS	9/9/1988	0.9	0.9	0.9	0.9
USGS	9/10/1988	0.88	0.88	0.88	0.88
USGS	9/11/1988	2.2	2.2	2.2	2.2
USGS	9/12/1988	3.9	3.9	3.9	3.9
USGS	9/13/1988	2.7	2.7	2.7	2.7
USGS	9/14/1988	2.2	2.2	2.2	2.2
USGS	9/15/1988	2.1	2.1	2.1	2.1
USGS	9/16/1988	1.8	1.8	1.8	1.8
USGS	9/17/1988	1.4	1.4	1.4	1.4
USGS	9/18/1988	4.4	4.4	4.4	4.4
USGS	9/19/1988	5.8		5.8	5.8
USGS	9/20/1988	5.7		5.7	5.7
USGS	9/21/1988	7.6		7.6	7.6
USGS	9/22/1988	7.9		7.9	7.9
USGS	9/23/1988	8.1		8.1	8.1
USGS	9/24/1988	7.6		7.6	7.6
USGS	9/25/1988	7.3		7.3	7.3
USGS	9/26/1988	7		7	7
USGS	9/27/1988	5.7		5.7	5.7
USGS	9/28/1988	4.7	4.7	4.7	4.7
USGS	9/29/1988	4	4	4	4
USGS	9/30/1988	2.9	2.9	2.9	2.9
USGS	10/1/1988	1.9	1.9	1.9	1.9
USGS	10/2/1988	1.5	1.5	1.5	1.5
USGS	10/3/1988	1.6	1.6	1.6	1.6
USGS	10/4/1988	1.8	1.8	1.8	1.8
USGS	10/5/1988	3.2	3.2	3.2	3.2
USGS	10/6/1988	3.5	3.5	3.5	3.5
USGS	10/7/1988	3.7	3.7	3.7	3.7
USGS	10/8/1988	2.9	2.9	2.9	2.9
USGS	10/9/1988	2.6	2.6	2.6	2.6
USGS	10/10/1988	2.7	2.7	2.7	2.7
USGS	10/11/1988	2.7	2.7	2.7	2.7
USGS	10/12/1988	2.8	2.8	2.8	2.8
USGS	10/13/1988	3.6	3.6	3.6	3.6
USGS	10/14/1988	3.3	3.3	3.3	3.3
USGS	10/15/1988	2.8	2.8	2.8	2.8
USGS	10/16/1988	3	3	3	3
USGS	10/17/1988	3.7	3.7	3.7	3.7
USGS	10/18/1988	2.9	2.9	2.9	2.9
USGS	10/19/1988	4.6	4.6	4.6	4.6
USGS	10/20/1988	5.6		5.6	5.6
USGS	10/21/1988	5		5	5
USGS	10/22/1988	4.9	4.9	4.9	4.9
USGS	10/23/1988	4.7	4.7	4.7	4.7
USGS	10/24/1988	5.4		5.4	5.4
USGS	10/25/1988	9.2		9.2	9.2
USGS	10/26/1988	5.7		5.7	5.7
USGS	10/27/1988	5.7		5.7	5.7

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	10/28/1988	6.4		6.4	6.4
USGS	10/29/1988	6.2		6.2	6.2
USGS	10/30/1988	6		6	6
USGS	10/31/1988	6		6	6
USGS	11/1/1988	6.7		6.7	6.7
USGS	11/2/1988	6.8		6.8	6.8
USGS	11/3/1988	10			10
USGS	11/4/1988	8.9		8.9	8.9
USGS	11/5/1988	7.8		7.8	7.8
USGS	11/6/1988	8.5		8.5	8.5
USGS	6/6/1989	18			18
USGS	7/2/1989	8.2		8.2	8.2
USGS	7/3/1989	5.5		5.5	5.5
USGS	8/3/1989	19			19
USGS	8/4/1989	14			14
USGS	8/5/1989	6.9		6.9	6.9
USGS	8/6/1989	5.4		5.4	5.4
USGS	8/7/1989	4.1	4.1	4.1	4.1
USGS	8/8/1989	3.5	3.5	3.5	3.5
USGS	8/9/1989	3	3	3	3
USGS	8/10/1989	3	3	3	3
USGS	8/11/1989	2.5	2.5	2.5	2.5
USGS	8/12/1989	3.3	3.3	3.3	3.3
USGS	8/13/1989	2.6	2.6	2.6	2.6
USGS	8/14/1989	2.2	2.2	2.2	2.2
USGS	8/15/1989	16			16
USGS	8/16/1989	17			17
USGS	8/17/1989	12			12
USGS	8/18/1989	9.6		9.6	9.6
USGS	8/19/1989	8.1		8.1	8.1
USGS	8/20/1989	8.4		8.4	8.4
USGS	8/21/1989	10			10
USGS	8/22/1989	6.9		6.9	6.9
USGS	8/23/1989	5.7		5.7	5.7
USGS	8/24/1989	5.6		5.6	5.6
USGS	8/25/1989	18			18
USGS	4/27/1990	17			17
USGS	4/28/1990	16			16
USGS	4/29/1990	16			16
USGS	4/30/1990	15			15
USGS	5/1/1990	15			15
USGS	5/2/1990	22			
USGS	5/3/1990	20			
USGS	5/4/1990	25			
USGS	5/5/1990	26			
USGS	5/6/1990	24			
USGS	5/7/1990	14			14
USGS	5/8/1990	23			
USGS	5/9/1990	16			16
USGS	5/10/1990	7.1		7.1	7.1

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	5/11/1990	3	3	3	3
USGS	5/12/1990	7.9		7.9	7.9
USGS	5/13/1990	7.1		7.1	7.1
USGS	5/14/1990	5.8		5.8	5.8
USGS	5/15/1990	12			12
USGS	5/16/1990	14			14
USGS	5/17/1990	13			13
USGS	6/16/1990	15			15
USGS	6/17/1990	8.6		8.6	8.6
USGS	6/18/1990	10			10
USGS	9/8/1990	15			15
USGS	10/3/1990	16			16
USGS	4/4/1991	19			19
USGS	5/1/1992	12			12
USGS	5/2/1992	8		8	8
USGS	5/3/1992	7.8		7.8	7.8
USGS	5/4/1992	7.3		7.3	7.3
USGS	5/5/1992	4.8	4.8	4.8	4.8
USGS	5/6/1992	3	3	3	3
USGS	5/7/1992	2.3	2.3	2.3	2.3
USGS	6/12/1992	15			15
USGS	6/13/1992	13			13
USGS	6/14/1992	12			12
USGS	7/20/1992	17			17
USGS	5/2/1993	13			13
USGS	5/3/1993	11			11
USGS	5/4/1993	10			10
USGS	5/5/1993	13			13
USGS	5/6/1993	11			11
USGS	5/7/1993	7.2		7.2	7.2
USGS	5/8/1993	6.4		6.4	6.4
USGS	5/9/1993	3.6	3.6	3.6	3.6
USGS	4/5/2000	18			18
USGS	4/6/2000	18			18
USGS	4/7/2000	17			17
USGS	4/8/2000	17			17
USGS	4/9/2000	15			15
USGS	4/10/2000	14			14
USGS	4/11/2000	14			14
USGS	4/12/2000	14			14
USGS	4/13/2000	15			15
USGS	4/14/2000	15			15
USGS	4/15/2000	16			16
USGS	4/16/2000	16			16
USGS	4/17/2000	22			
USGS	4/18/2000	28			
USGS	4/19/2000	21			
USGS	4/20/2000	11			11
USGS	4/21/2000	10			10
USGS	4/22/2000	4.5	4.5	4.5	4.5

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	4/23/2000	2.3	2.3	2.3	2.3
USGS	4/24/2000	2.1	2.1	2.1	2.1
USGS	4/25/2000	1.8	1.8	1.8	1.8
USGS	4/26/2000	1.6	1.6	1.6	1.6
USGS	4/27/2000	3.7	3.7	3.7	3.7
USGS	4/28/2000	3.7	3.7	3.7	3.7
USGS	4/29/2000	4.6	4.6	4.6	4.6
USGS	4/30/2000	4.8	4.8	4.8	4.8
USGS	5/1/2000	4.8	4.8	4.8	4.8
USGS	5/2/2000	5.6		5.6	5.6
USGS	5/3/2000	5.2		5.2	5.2
USGS	5/4/2000	4.5	4.5	4.5	4.5
USGS	8/4/2000	16			16
USGS	8/5/2000	11			11
USGS	8/6/2000	11			11
USGS	8/7/2000	10			10
USGS	8/8/2000	10			10
USGS	8/9/2000	10			10
USGS	8/10/2000	9.1		9.1	9.1
USGS	8/11/2000	7.2		7.2	7.2
USGS	8/12/2000	6.3		6.3	6.3
USGS	8/13/2000	5.9		5.9	5.9
USGS	8/14/2000	7.5		7.5	7.5
USGS	8/15/2000	8.3		8.3	8.3
USGS	8/16/2000	7.6		7.6	7.6
USGS	8/17/2000	7.8		7.8	7.8
USGS	8/18/2000	8.1		8.1	8.1
USGS	8/19/2000	8.7		8.7	8.7
USGS	8/20/2000	7.7		7.7	7.7
USGS	8/21/2000	7.2		7.2	7.2
USGS	8/22/2000	7.2		7.2	7.2
USGS	8/23/2000	7.2		7.2	7.2
USGS	8/24/2000	7.1		7.1	7.1
USGS	8/25/2000	6.9		6.9	6.9
USGS	8/26/2000	6.4		6.4	6.4
USGS	8/27/2000	6.1		6.1	6.1
USGS	8/28/2000	5.6		5.6	5.6
USGS	8/29/2000	5.3		5.3	5.3
USGS	8/30/2000	4.9	4.9	4.9	4.9
USGS	8/31/2000	4	4	4	4
USGS	9/1/2000	4.1	4.1	4.1	4.1
USGS	9/2/2000	5.1		5.1	5.1
USGS	9/3/2000	5.2		5.2	5.2
USGS	9/4/2000	4.8	4.8	4.8	4.8
USGS	9/5/2000	4.4	4.4	4.4	4.4
USGS	9/6/2000	5.4		5.4	5.4
USGS	9/7/2000	6.5		6.5	6.5
USGS	9/8/2000	6.5		6.5	6.5
USGS	9/9/2000	5.6		5.6	5.6
USGS	9/10/2000	3.9	3.9	3.9	3.9

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	9/11/2000	3.8	3.8	3.8	3.8
USGS	9/12/2000	3.8	3.8	3.8	3.8
USGS	9/13/2000	3.7	3.7	3.7	3.7
USGS	9/14/2000	3.2	3.2	3.2	3.2
USGS	9/15/2000	2.4	2.4	2.4	2.4
USGS	9/16/2000	2.4	2.4	2.4	2.4
USGS	9/17/2000	2.4	2.4	2.4	2.4
USGS	9/18/2000	2.4	2.4	2.4	2.4
USGS	9/19/2000	3.2	3.2	3.2	3.2
USGS	9/20/2000	2.5	2.5	2.5	2.5
USGS	9/21/2000	2.1	2.1	2.1	2.1
USGS	9/22/2000	2.3	2.3	2.3	2.3
USGS	9/23/2000	2.1	2.1	2.1	2.1
USGS	9/24/2000	2.1	2.1	2.1	2.1
USGS	9/25/2000	1.8	1.8	1.8	1.8
USGS	9/26/2000	1.3	1.3	1.3	1.3
USGS	9/27/2000	1.1	1.1	1.1	1.1
USGS	9/28/2000	1	1	1	1
USGS	9/29/2000	0.86	0.86	0.86	0.86
USGS	9/30/2000	0.67	0.67	0.67	0.67
USGS	10/1/2000	1.1	1.1	1.1	1.1
USGS	10/2/2000	1.6	1.6	1.6	1.6
USGS	10/3/2000	1.4	1.4	1.4	1.4
USGS	10/4/2000	1.4	1.4	1.4	1.4
USGS	10/5/2000	1.1	1.1	1.1	1.1
USGS	10/6/2000	1.1	1.1	1.1	1.1
USGS	10/7/2000	1.1	1.1	1.1	1.1
USGS	10/8/2000	1.3	1.3	1.3	1.3
USGS	10/9/2000	1.4	1.4	1.4	1.4
USGS	10/10/2000	2	2	2	2
USGS	10/11/2000	2.1	2.1	2.1	2.1
USGS	10/12/2000	2.2	2.2	2.2	2.2
USGS	10/13/2000	2.8	2.8	2.8	2.8
USGS	10/14/2000	3.2	3.2	3.2	3.2
USGS	10/15/2000	4.2	4.2	4.2	4.2
USGS	10/16/2000	13			13
USGS	10/17/2000	13			13
USGS	10/18/2000	19			19
USGS	10/19/2000	20			
USGS	10/20/2000	22			
USGS	10/21/2000	19			19
USGS	10/22/2000	16			16
USGS	10/23/2000	12			12
USGS	10/24/2000	11			11
USGS	10/25/2000	7.4		7.4	7.4
USGS	10/26/2000	7.1		7.1	7.1
USGS	10/27/2000	6.4		6.4	6.4
USGS	10/28/2000	5.1		5.1	5.1
USGS	10/29/2000	4.7	4.7	4.7	4.7
USGS	10/30/2000	4.2	4.2	4.2	4.2

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	10/31/2000	4.4	4.4	4.4	4.4
USGS	11/1/2000	4.4	4.4	4.4	4.4
USGS	11/2/2000	3.8	3.8	3.8	3.8
USGS	11/3/2000	4.4	4.4	4.4	4.4
USGS	11/4/2000	4.8	4.8	4.8	4.8
USGS	11/5/2000	4.5	4.5	4.5	4.5
USGS	11/6/2000	3.8	3.8	3.8	3.8
USGS	3/29/2001	12			12
USGS	3/30/2001	2.9	2.9	2.9	2.9
USGS	3/31/2001	1.5	1.5	1.5	1.5
USGS	4/1/2001	1.3	1.3	1.3	1.3
USGS	4/2/2001	1.1	1.1	1.1	1.1
USGS	4/3/2001	1.1	1.1	1.1	1.1
USGS	4/4/2001	1.1	1.1	1.1	1.1
USGS	4/5/2001	1.1	1.1	1.1	1.1
USGS	4/6/2001	1.1	1.1	1.1	1.1
USGS	4/7/2001	0.99	0.99	0.99	0.99
USGS	4/8/2001	0.89	0.89	0.89	0.89
USGS	4/9/2001	2	2	2	2
USGS	4/10/2001	2.6	2.6	2.6	2.6
USGS	4/11/2001	3.7	3.7	3.7	3.7
USGS	4/12/2001	2	2	2	2
USGS	4/13/2001	1.3	1.3	1.3	1.3
USGS	4/14/2001	1	1	1	1
USGS	4/15/2001	0.87	0.87	0.87	0.87
USGS	4/16/2001	0.87	0.87	0.87	0.87
USGS	4/17/2001	0.87	0.87	0.87	0.87
USGS	4/18/2001	0.87	0.87	0.87	0.87
USGS	4/19/2001	0.87	0.87	0.87	0.87
USGS	4/20/2001	0.87	0.87	0.87	0.87
USGS	4/21/2001	1	1	1	1
USGS	4/22/2001	1.4	1.4	1.4	1.4
USGS	4/23/2001	1.4	1.4	1.4	1.4
USGS	4/24/2001	1.2	1.2	1.2	1.2
USGS	4/25/2001	0.88	0.88	0.88	0.88
USGS	4/26/2001	0.87	0.87	0.87	0.87
USGS	4/27/2001	0.87	0.87	0.87	0.87
USGS	4/28/2001	0.87	0.87	0.87	0.87
USGS	4/29/2001	0.81	0.81	0.81	0.81
USGS	4/30/2001	0.76	0.76	0.76	0.76
USGS	5/1/2001	1.4	1.4	1.4	1.4
USGS	5/2/2001	1.2	1.2	1.2	1.2
USGS	5/3/2001	0.87	0.87	0.87	0.87
USGS	5/4/2001	0.87	0.87	0.87	0.87
USGS	5/5/2001	0.87	0.87	0.87	0.87
USGS	6/16/2001	4.3	4.3	4.3	4.3
USGS	6/17/2001	2.7	2.7	2.7	2.7
USGS	6/18/2001	4.9	4.9	4.9	4.9
USGS	6/19/2001	4	4	4	4
USGS	6/20/2001	3.9	3.9	3.9	3.9

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	6/21/2001	3.1	3.1	3.1	3.1
USGS	6/22/2001	16			16
USGS	6/23/2001	20			
USGS	6/24/2001	21			
USGS	6/25/2001	11			11
USGS	6/26/2001	4.6	4.6	4.6	4.6
USGS	6/27/2001	2.7	2.7	2.7	2.7
USGS	6/28/2001	7.2		7.2	7.2
USGS	6/29/2001	139			
USGS	6/30/2001	43			
USGS	7/1/2001	18			18
USGS	7/2/2001	9.7		9.7	9.7
USGS	7/3/2001	5		5	5
USGS	7/4/2001	3.3	3.3	3.3	3.3
USGS	7/5/2001	2.4	2.4	2.4	2.4
USGS	7/6/2001	2	2	2	2
USGS	7/7/2001	1.9	1.9	1.9	1.9
USGS	7/8/2001	2.7	2.7	2.7	2.7
USGS	7/9/2001	9.2		9.2	9.2
USGS	7/10/2001	7.5		7.5	7.5
USGS	7/11/2001	4.1	4.1	4.1	4.1
USGS	7/12/2001	11			11
USGS	7/13/2001	31			
USGS	7/14/2001	68			
USGS	7/15/2001	54			
USGS	7/16/2001	81			
USGS	7/17/2001	92			
USGS	7/18/2001	82			
USGS	7/19/2001	68			
USGS	7/20/2001	77			
USGS	7/21/2001	23			
USGS	7/22/2001	5.8		5.8	5.8
USGS	7/23/2001	3.1	3.1	3.1	3.1
USGS	7/24/2001	4.2	4.2	4.2	4.2
USGS	7/25/2001	2.8	2.8	2.8	2.8
USGS	7/26/2001	2.4	2.4	2.4	2.4
USGS	7/27/2001	1.9	1.9	1.9	1.9
USGS	7/28/2001	5.4		5.4	5.4
USGS	7/29/2001	28			
USGS	7/30/2001	11			11
USGS	7/31/2001	8		8	8
USGS	8/1/2001	6.1		6.1	6.1
USGS	8/2/2001	2.4	2.4	2.4	2.4
USGS	8/3/2001	1.4	1.4	1.4	1.4
USGS	8/4/2001	1	1	1	1
USGS	8/5/2001	0.76	0.76	0.76	0.76
USGS	8/6/2001	0.44	0.44	0.44	0.44
USGS	8/7/2001	0.3	0.3	0.3	0.3
USGS	8/8/2001	0.28	0.28	0.28	0.28
USGS	8/9/2001	0.29	0.29	0.29	0.29

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	8/10/2001	0.22	0.22	0.22	0.22
USGS	8/11/2001	0.15	0.15	0.15	0.15
USGS	8/12/2001	0.12	0.12	0.12	0.12
USGS	8/13/2001	0.04	0.04	0.04	0.04
USGS	8/14/2001	0	0	0	0
USGS	8/15/2001	0	0	0	0
USGS	8/16/2001	0	0	0	0
USGS	8/17/2001	0	0	0	0
USGS	8/18/2001	0	0	0	0
USGS	8/19/2001	0	0	0	0
USGS	8/20/2001	0	0	0	0
USGS	8/21/2001	0	0	0	0
USGS	8/22/2001	0	0	0	0
USGS	8/23/2001	0	0	0	0
USGS	8/24/2001	0	0	0	0
USGS	8/25/2001	0	0	0	0
USGS	8/26/2001	0	0	0	0
USGS	8/27/2001	0	0	0	0
USGS	8/28/2001	0	0	0	0
USGS	8/29/2001	0	0	0	0
USGS	8/30/2001	0	0	0	0
USGS	8/31/2001	0	0	0	0
USGS	9/1/2001	0	0	0	0
USGS	9/2/2001	0	0	0	0
USGS	9/3/2001	0	0	0	0
USGS	9/4/2001	0	0	0	0
USGS	9/5/2001	0	0	0	0
USGS	9/6/2001	0	0	0	0
USGS	9/7/2001	0	0	0	0
USGS	9/8/2001	0	0	0	0
USGS	9/9/2001	0	0	0	0
USGS	9/10/2001	0	0	0	0
USGS	9/11/2001	0	0	0	0
USGS	9/12/2001	0	0	0	0
USGS	9/13/2001	0	0	0	0
USGS	9/14/2001	0	0	0	0
USGS	9/15/2001	0	0	0	0
USGS	9/16/2001	0	0	0	0
USGS	9/17/2001	0	0	0	0
USGS	9/18/2001	0	0	0	0
USGS	9/19/2001	0	0	0	0
USGS	9/20/2001	0	0	0	0
USGS	9/21/2001	0	0	0	0
USGS	9/22/2001	0	0	0	0
USGS	9/23/2001	0	0	0	0
USGS	9/24/2001	0	0	0	0
USGS	9/25/2001	0	0	0	0
USGS	9/26/2001	0	0	0	0
USGS	9/27/2001	0	0	0	0
USGS	9/28/2001	0	0	0	0

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	9/29/2001	0	0	0	0
USGS	9/30/2001	0	0	0	0
USGS	10/1/2001	0	0	0	0
USGS	10/2/2001	0	0	0	0
USGS	10/3/2001	0	0	0	0
USGS	10/4/2001	0	0	0	0
USGS	10/5/2001	0	0	0	0
USGS	10/6/2001	0	0	0	0
USGS	10/7/2001	0	0	0	0
USGS	10/8/2001	0	0	0	0
USGS	10/9/2001	0	0	0	0
USGS	10/10/2001	0	0	0	0
USGS	10/11/2001	0	0	0	0
USGS	10/12/2001	0	0	0	0
USGS	10/13/2001	0	0	0	0
USGS	10/14/2001	0	0	0	0
USGS	10/15/2001	0	0	0	0
USGS	10/16/2001	0	0	0	0
USGS	10/17/2001	0	0	0	0
USGS	10/18/2001	0	0	0	0
USGS	10/19/2001	0	0	0	0
USGS	10/20/2001	0	0	0	0
USGS	10/21/2001	0	0	0	0
USGS	10/22/2001	0	0	0	0
USGS	10/23/2001	0	0	0	0
USGS	10/24/2001	0	0	0	0
USGS	10/25/2001	0	0	0	0
USGS	10/26/2001	0	0	0	0
USGS	10/27/2001	0	0	0	0
USGS	10/28/2001	0	0	0	0
USGS	10/29/2001	0	0	0	0
USGS	10/30/2001	0	0	0	0
USGS	10/31/2001	0	0	0	0
USGS	3/19/2002	12			12
USGS	3/20/2002	10			10
USGS	3/21/2002	10			10
USGS	3/22/2002	10			10
USGS	3/23/2002	10			10
USGS	3/24/2002	15			15
USGS	3/25/2002	15			15
USGS	3/26/2002	20			
USGS	3/27/2002	25			
USGS	3/28/2002	15			15
USGS	3/29/2002	10			10
USGS	3/30/2002	15			15
USGS	3/31/2002	16			16
USGS	4/1/2002	15			15
USGS	4/2/2002	20			
USGS	4/3/2002	20			
USGS	4/4/2002	20			

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	4/5/2002	20			
USGS	4/6/2002	15			15
USGS	4/7/2002	2.8	2.8	2.8	2.8
USGS	4/8/2002	0.81	0.81	0.81	0.81
USGS	4/9/2002	0.82	0.82	0.82	0.82
USGS	4/10/2002	0.75	0.75	0.75	0.75
USGS	4/11/2002	0.58	0.58	0.58	0.58
USGS	4/12/2002	0.52	0.52	0.52	0.52
USGS	4/13/2002	0.6	0.6	0.6	0.6
USGS	4/14/2002	0.56	0.56	0.56	0.56
USGS	4/15/2002	0.65	0.65	0.65	0.65
USGS	4/16/2002	1.3	1.3	1.3	1.3
USGS	4/17/2002	0.82	0.82	0.82	0.82
USGS	4/18/2002	1.1	1.1	1.1	1.1
USGS	4/19/2002	0.8	0.8	0.8	0.8
USGS	4/20/2002	0.68	0.68	0.68	0.68
USGS	4/21/2002	0.61	0.61	0.61	0.61
USGS	4/22/2002	0.56	0.56	0.56	0.56
USGS	4/23/2002	0.56	0.56	0.56	0.56
USGS	4/24/2002	0.57	0.57	0.57	0.57
USGS	4/25/2002	0.59	0.59	0.59	0.59
USGS	4/26/2002	0.57	0.57	0.57	0.57
USGS	4/27/2002	0.61	0.61	0.61	0.61
USGS	4/28/2002	0.65	0.65	0.65	0.65
USGS	4/29/2002	0.54	0.54	0.54	0.54
USGS	4/30/2002	0.46	0.46	0.46	0.46
USGS	5/1/2002	0.48	0.48	0.48	0.48
USGS	5/2/2002	0.43	0.43	0.43	0.43
USGS	5/3/2002	0.44	0.44	0.44	0.44
USGS	5/4/2002	0.4	0.4	0.4	0.4
USGS	5/5/2002	0.61	0.61	0.61	0.61
USGS	5/6/2002	1.1	1.1	1.1	1.1
USGS	5/7/2002	1.6	1.6	1.6	1.6
USGS	5/8/2002	1.3	1.3	1.3	1.3
USGS	5/9/2002	0.85	0.85	0.85	0.85
USGS	5/10/2002	0.81	0.81	0.81	0.81
USGS	5/11/2002	0.87	0.87	0.87	0.87
USGS	5/12/2002	0.8	0.8	0.8	0.8
USGS	5/13/2002	0.67	0.67	0.67	0.67
USGS	5/14/2002	0.63	0.63	0.63	0.63
USGS	5/15/2002	0.57	0.57	0.57	0.57
USGS	5/16/2002	0.46	0.46	0.46	0.46
USGS	5/17/2002	0.42	0.42	0.42	0.42
USGS	5/18/2002	0.3	0.3	0.3	0.3
USGS	5/19/2002	0.29	0.29	0.29	0.29
USGS	5/20/2002	0.22	0.22	0.22	0.22
USGS	5/21/2002	0.22	0.22	0.22	0.22
USGS	5/22/2002	0.88	0.88	0.88	0.88
USGS	5/23/2002	0.72	0.72	0.72	0.72
USGS	5/24/2002	0.33	0.33	0.33	0.33

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	5/25/2002	0.3	0.3	0.3	0.3
USGS	5/26/2002	0.27	0.27	0.27	0.27
USGS	5/27/2002	0.3	0.3	0.3	0.3
USGS	6/17/2002	18			18
USGS	6/18/2002	15			15
USGS	6/23/2002	14			14
USGS	7/1/2002	19			19
USGS	7/2/2002	8		8	8
USGS	7/3/2002	8.3		8.3	8.3
USGS	7/9/2002	18			18
USGS	7/10/2002	17			17
USGS	7/11/2002	14			14
USGS	7/12/2002	10			10
USGS	7/13/2002	5.5		5.5	5.5
USGS	7/14/2002	3.1	3.1	3.1	3.1
USGS	7/15/2002	2.3	2.3	2.3	2.3
USGS	7/16/2002	2.5	2.5	2.5	2.5
USGS	7/17/2002	4.9	4.9	4.9	4.9
USGS	7/18/2002	3.7	3.7	3.7	3.7
USGS	7/19/2002	2.5	2.5	2.5	2.5
USGS	7/20/2002	1.9	1.9	1.9	1.9
USGS	7/21/2002	1.6	1.6	1.6	1.6
USGS	7/22/2002	1.7	1.7	1.7	1.7
USGS	7/23/2002	1.7	1.7	1.7	1.7
USGS	7/24/2002	1.4	1.4	1.4	1.4
USGS	7/25/2002	1.5	1.5	1.5	1.5
USGS	7/26/2002	1.4	1.4	1.4	1.4
USGS	7/27/2002	2.2	2.2	2.2	2.2
USGS	7/28/2002	2.9	2.9	2.9	2.9
USGS	7/29/2002	1.5	1.5	1.5	1.5
USGS	7/30/2002	0.81	0.81	0.81	0.81
USGS	7/31/2002	0.48	0.48	0.48	0.48
USGS	8/1/2002	0.17	0.17	0.17	0.17
USGS	8/2/2002	1.4	1.4	1.4	1.4
USGS	8/3/2002	3.2	3.2	3.2	3.2
USGS	8/4/2002	3.7	3.7	3.7	3.7
USGS	8/5/2002	3.5	3.5	3.5	3.5
USGS	8/6/2002	2.6	2.6	2.6	2.6
USGS	8/7/2002	2.1	2.1	2.1	2.1
USGS	8/8/2002	2.2	2.2	2.2	2.2
USGS	8/9/2002	3.3	3.3	3.3	3.3
USGS	8/10/2002	2.8	2.8	2.8	2.8
USGS	8/11/2002	1.5	1.5	1.5	1.5
USGS	8/12/2002	0.85	0.85	0.85	0.85
USGS	8/13/2002	0.39	0.39	0.39	0.39
USGS	8/14/2002	0.15	0.15	0.15	0.15
USGS	8/15/2002	0	0	0	0
USGS	8/16/2002	0	0	0	0
USGS	8/17/2002	0	0	0	0
USGS	8/18/2002	0	0	0	0

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	8/19/2002	0	0	0	0
USGS	8/20/2002	0	0	0	0
USGS	8/21/2002	0	0	0	0
USGS	8/22/2002	0	0	0	0
USGS	8/23/2002	0	0	0	0
USGS	8/24/2002	0	0	0	0
USGS	8/25/2002	0	0	0	0
USGS	8/26/2002	0	0	0	0
USGS	8/27/2002	0	0	0	0
USGS	8/28/2002	0	0	0	0
USGS	8/29/2002	0	0	0	0
USGS	8/30/2002	0	0	0	0
USGS	8/31/2002	0	0	0	0
USGS	9/1/2002	0	0	0	0
USGS	9/2/2002	0	0	0	0
USGS	9/3/2002	0	0	0	0
USGS	9/4/2002	0	0	0	0
USGS	9/5/2002	0	0	0	0
USGS	9/6/2002	0	0	0	0
USGS	9/7/2002	0	0	0	0
USGS	9/8/2002	0	0	0	0
USGS	9/9/2002	0	0	0	0
USGS	9/10/2002	0	0	0	0
USGS	9/11/2002	0	0	0	0
USGS	9/12/2002	0	0	0	0
USGS	9/13/2002	0	0	0	0
USGS	9/14/2002	0	0	0	0
USGS	9/15/2002	0	0	0	0
USGS	9/16/2002	0	0	0	0
USGS	9/17/2002	0	0	0	0
USGS	9/18/2002	0	0	0	0
USGS	9/19/2002	0	0	0	0
USGS	9/20/2002	0	0	0	0
USGS	9/21/2002	0	0	0	0
USGS	9/22/2002	0	0	0	0
USGS	9/23/2002	0	0	0	0
USGS	9/24/2002	0	0	0	0
USGS	9/25/2002	0	0	0	0
USGS	9/26/2002	0	0	0	0
USGS	9/27/2002	0	0	0	0
USGS	9/28/2002	0	0	0	0
USGS	9/29/2002	0	0	0	0
USGS	9/30/2002	0	0	0	0
USGS	10/1/2002	0	0	0	0
USGS	10/2/2002	0	0	0	0
USGS	10/3/2002	0	0	0	0
USGS	10/4/2002	0	0	0	0
USGS	10/5/2002	0	0	0	0
USGS	10/6/2002	0	0	0	0
USGS	10/7/2002	0	0	0	0

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	10/8/2002	0	0	0	0
USGS	10/9/2002	0	0	0	0
USGS	10/10/2002	0	0	0	0
USGS	10/11/2002	0	0	0	0
USGS	10/12/2002	0	0	0	0
USGS	10/13/2002	0	0	0	0
USGS	10/14/2002	8.4		8.4	8.4
USGS	10/15/2002	12			12
USGS	10/16/2002	10			10
USGS	10/17/2002	8.4		8.4	8.4
USGS	10/18/2002	14			14
USGS	10/19/2002	18			18
USGS	10/20/2002	19			19
USGS	10/21/2002	19			19
USGS	10/22/2002	19			19
USGS	10/23/2002	21			
USGS	10/24/2002	24			
USGS	10/25/2002	24			
USGS	10/26/2002	25			
USGS	10/27/2002	26			
USGS	10/28/2002	26			
USGS	10/29/2002	30			
USGS	10/30/2002	24			
USGS	10/31/2002	22			
USGS	11/1/2002	24			
USGS	11/2/2002	24			
USGS	11/3/2002	26			
USGS	11/4/2002	28			
USGS	11/5/2002	26			
USGS	11/6/2002	34			
USGS	11/7/2002	34			
USGS	4/1/2003	8.6		8.6	8.6
USGS	4/2/2003	5.5		5.5	5.5
USGS	4/3/2003	6.5		6.5	6.5
USGS	4/4/2003	3.5	3.5	3.5	3.5
USGS	4/5/2003	3.6	3.6	3.6	3.6
USGS	4/6/2003	5.7		5.7	5.7
USGS	4/7/2003	4.3	4.3	4.3	4.3
USGS	4/8/2003	3.9	3.9	3.9	3.9
USGS	4/9/2003	3.9	3.9	3.9	3.9
USGS	4/10/2003	3.6	3.6	3.6	3.6
USGS	4/11/2003	3.8	3.8	3.8	3.8
USGS	4/12/2003	4.2	4.2	4.2	4.2
USGS	4/13/2003	3.9	3.9	3.9	3.9
USGS	4/14/2003	3.6	3.6	3.6	3.6
USGS	4/15/2003	3.4	3.4	3.4	3.4
USGS	4/16/2003	2.8	2.8	2.8	2.8
USGS	4/17/2003	2.3	2.3	2.3	2.3
USGS	4/18/2003	2.2	2.2	2.2	2.2
USGS	4/19/2003	2.2	2.2	2.2	2.2

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	4/20/2003	2	2	2	2
USGS	4/21/2003	1.8	1.8	1.8	1.8
USGS	4/22/2003	1.6	1.6	1.6	1.6
USGS	4/23/2003	1.5	1.5	1.5	1.5
USGS	4/24/2003	1.4	1.4	1.4	1.4
USGS	4/25/2003	1.3	1.3	1.3	1.3
USGS	4/26/2003	1.6	1.6	1.6	1.6
USGS	4/27/2003	4.1	4.1	4.1	4.1
USGS	4/28/2003	3.6	3.6	3.6	3.6
USGS	5/6/2003	16			16
USGS	5/7/2003	4.4	4.4	4.4	4.4
USGS	5/8/2003	6.6		6.6	6.6
USGS	5/9/2003	14			14
USGS	5/27/2003	13			13
USGS	5/28/2003	13			13
USGS	8/6/2003	19			19
USGS	8/7/2003	16			16
USGS	8/8/2003	13			13
USGS	8/9/2003	10			10
USGS	8/10/2003	7.6		7.6	7.6
USGS	8/11/2003	6.2		6.2	6.2
USGS	8/12/2003	3.9	3.9	3.9	3.9
USGS	8/13/2003	2.3	2.3	2.3	2.3
USGS	8/14/2003	1.6	1.6	1.6	1.6
USGS	8/15/2003	1	1	1	1
USGS	8/16/2003	0.7	0.7	0.7	0.7
USGS	8/17/2003	0.65	0.65	0.65	0.65
USGS	8/18/2003	0.8	0.8	0.8	0.8
USGS	8/19/2003	1.2	1.2	1.2	1.2
USGS	8/20/2003	1.3	1.3	1.3	1.3
USGS	8/21/2003	2	2	2	2
USGS	8/22/2003	3.4	3.4	3.4	3.4
USGS	8/23/2003	4.4	4.4	4.4	4.4
USGS	8/24/2003	4.4	4.4	4.4	4.4
USGS	8/25/2003	5.1		5.1	5.1
USGS	8/26/2003	4.6	4.6	4.6	4.6
USGS	8/27/2003	3.8	3.8	3.8	3.8
USGS	8/28/2003	2.9	2.9	2.9	2.9
USGS	8/29/2003	1.9	1.9	1.9	1.9
USGS	8/30/2003	1.1	1.1	1.1	1.1
USGS	8/31/2003	1	1	1	1
USGS	9/1/2003	1	1	1	1
USGS	9/2/2003	1	1	1	1
USGS	9/3/2003	1	1	1	1
USGS	9/4/2003	1	1	1	1
USGS	9/5/2003	0.7	0.7	0.7	0.7
USGS	9/6/2003	0.7	0.7	0.7	0.7
USGS	9/7/2003	1	1	1	1
USGS	9/8/2003	1.2	1.2	1.2	1.2
USGS	9/9/2003	1.5	1.5	1.5	1.5

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	9/10/2003	2.5	2.5	2.5	2.5
USGS	9/11/2003	2	2	2	2
USGS	9/12/2003	1.9	1.9	1.9	1.9
USGS	9/13/2003	1.4	1.4	1.4	1.4
USGS	9/14/2003	1.4	1.4	1.4	1.4
USGS	9/15/2003	1.5	1.5	1.5	1.5
USGS	9/16/2003	2	2	2	2
USGS	9/17/2003	3	3	3	3
USGS	9/18/2003	3.5	3.5	3.5	3.5
USGS	9/19/2003	5		5	5
USGS	9/20/2003	6.9		6.9	6.9
USGS	9/21/2003	6.2		6.2	6.2
USGS	9/22/2003	5.4		5.4	5.4
USGS	9/23/2003	4.7	4.7	4.7	4.7
USGS	9/24/2003	4.3	4.3	4.3	4.3
USGS	9/25/2003	3.6	3.6	3.6	3.6
USGS	9/26/2003	3.4	3.4	3.4	3.4
USGS	9/27/2003	5.2		5.2	5.2
USGS	9/28/2003	5.6		5.6	5.6
USGS	9/29/2003	5		5	5
USGS	9/30/2003	4.8	4.8	4.8	4.8
USGS	10/1/2003	4.4	4.4	4.4	4.4
USGS	10/2/2003	5.8		5.8	5.8
USGS	10/3/2003	5.5		5.5	5.5
USGS	10/4/2003	4.9	4.9	4.9	4.9
USGS	10/5/2003	3.1	3.1	3.1	3.1
USGS	10/6/2003	1.9	1.9	1.9	1.9
USGS	10/7/2003	0.74	0.74	0.74	0.74
USGS	10/8/2003	0.33	0.33	0.33	0.33
USGS	10/9/2003	0.23	0.23	0.23	0.23
USGS	10/10/2003	0.22	0.22	0.22	0.22
USGS	10/11/2003	2.6	2.6	2.6	2.6
USGS	10/12/2003	1.5	1.5	1.5	1.5
USGS	10/13/2003	1	1	1	1
USGS	10/14/2003	0.89	0.89	0.89	0.89
USGS	10/15/2003	0.75	0.75	0.75	0.75
USGS	10/16/2003	2	2	2	2
USGS	10/17/2003	1.8	1.8	1.8	1.8
USGS	10/18/2003	0.45	0.45	0.45	0.45
USGS	10/19/2003	0.43	0.43	0.43	0.43
USGS	10/20/2003	0.01	0.01	0.01	0.01
USGS	10/21/2003	0.48	0.48	0.48	0.48
USGS	10/22/2003	0.05	0.05	0.05	0.05
USGS	10/23/2003	0	0	0	0
USGS	10/24/2003	0	0	0	0
USGS	10/25/2003	0.76	0.76	0.76	0.76
USGS	10/26/2003	1.2	1.2	1.2	1.2
USGS	10/27/2003	1.6	1.6	1.6	1.6
USGS	10/28/2003	2.9	2.9	2.9	2.9
USGS	10/29/2003	9.2		9.2	9.2

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	10/30/2003	16			16
USGS	10/31/2003	19			19
USGS	11/1/2003	17			17
USGS	11/2/2003	17			17
USGS	11/3/2003	18			18
USGS	11/4/2003	19			19
USGS	3/30/2004	26			
USGS	3/31/2004	25			
USGS	4/1/2004	1.9	1.9	1.9	1.9
USGS	4/2/2004	1.6	1.6	1.6	1.6
USGS	4/3/2004	1.6	1.6	1.6	1.6
USGS	4/4/2004	1.3	1.3	1.3	1.3
USGS	4/5/2004	1.3	1.3	1.3	1.3
USGS	4/6/2004	1.4	1.4	1.4	1.4
USGS	4/7/2004	1.5	1.5	1.5	1.5
USGS	4/8/2004	1.5	1.5	1.5	1.5
USGS	4/9/2004	1.4	1.4	1.4	1.4
USGS	4/10/2004	1.3	1.3	1.3	1.3
USGS	4/11/2004	1.3	1.3	1.3	1.3
USGS	4/12/2004	1.3	1.3	1.3	1.3
USGS	4/13/2004	1.3	1.3	1.3	1.3
USGS	4/14/2004	1.1	1.1	1.1	1.1
USGS	4/15/2004	1.1	1.1	1.1	1.1
USGS	4/16/2004	1	1	1	1
USGS	4/17/2004	0.81	0.81	0.81	0.81
USGS	4/18/2004	0.77	0.77	0.77	0.77
USGS	4/19/2004	0.66	0.66	0.66	0.66
USGS	4/20/2004	0.95	0.95	0.95	0.95
USGS	4/21/2004	0.71	0.71	0.71	0.71
USGS	4/22/2004	0.66	0.66	0.66	0.66
USGS	4/23/2004	0.65	0.65	0.65	0.65
USGS	4/24/2004	0.6	0.6	0.6	0.6
USGS	4/25/2004	0.38	0.38	0.38	0.38
USGS	4/26/2004	0.36	0.36	0.36	0.36
USGS	4/27/2004	0.38	0.38	0.38	0.38
USGS	4/28/2004	0.62	0.62	0.62	0.62
USGS	4/29/2004	0.88	0.88	0.88	0.88
USGS	4/30/2004	1.2	1.2	1.2	1.2
USGS	5/1/2004	1.3	1.3	1.3	1.3
USGS	5/2/2004	1.3	1.3	1.3	1.3
USGS	5/3/2004	6.2		6.2	6.2
USGS	5/4/2004	6.4		6.4	6.4
USGS	5/5/2004	8		8	8
USGS	5/6/2004	7.1		7.1	7.1
USGS	5/7/2004	4.8	4.8	4.8	4.8
USGS	5/29/2004	13			13
USGS	5/30/2004	14			14
USGS	5/31/2004	9.5		9.5	9.5
USGS	6/1/2004	9.1		9.1	9.1
USGS	6/2/2004	11			11

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	6/3/2004	17	4.8	6.5	17
USGS	6/4/2004	11			11
USGS	6/5/2004	6.5			6.5
USGS	6/6/2004	8.2			8.2
USGS	6/7/2004	4.8			4.8
USGS	6/8/2004	8.8			8.8
USGS	6/9/2004	5.3			5.3
USGS	6/10/2004	7.2			7.2
USGS	6/19/2004	8.6		8.6	8.6
USGS	6/28/2004	12			12
USGS	6/29/2004	12			12
USGS	7/5/2004	11			11
USGS	7/6/2004	11			11
USGS	7/15/2004	15			15
USGS	7/16/2004	15			15
USGS	7/17/2004	15			15
USGS	7/27/2004	18		8.5	18
USGS	7/28/2004	24			
USGS	7/29/2004	25			
USGS	7/30/2004	22			
USGS	7/31/2004	19			19
USGS	8/1/2004	15			15
USGS	8/2/2004	12			12
USGS	8/3/2004	13			13
USGS	8/4/2004	17			17
USGS	8/5/2004	17			17
USGS	8/6/2004	12			12
USGS	8/7/2004	8.5			8.5
USGS	8/8/2004	6.6			6.6
USGS	8/9/2004	5.6			5.6
USGS	8/10/2004	3.6			3.6
USGS	8/11/2004	1			1
USGS	8/12/2004	0.25			0.25
USGS	8/13/2004	0.01			0.01
USGS	8/14/2004	0			0
USGS	8/15/2004	0			0
USGS	8/16/2004	0			0
USGS	8/17/2004	0			0
USGS	8/18/2004	0			0
USGS	8/19/2004	0			0
USGS	8/20/2004	0			0
USGS	8/21/2004	0			0
USGS	8/22/2004	0			0
USGS	8/23/2004	0			0
USGS	8/24/2004	0			0
USGS	8/25/2004	0			0
USGS	8/26/2004	3			3
USGS	8/27/2004	4.2			4.2
USGS	8/28/2004	3			3
USGS	8/29/2004	2.6			2.6

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	8/30/2004	2.1	2.1	2.1	2.1
USGS	8/31/2004	1.2	1.2	1.2	1.2
USGS	9/1/2004	0.62	0.62	0.62	0.62
USGS	9/2/2004	0.39	0.39	0.39	0.39
USGS	9/3/2004	1.5	1.5	1.5	1.5
USGS	9/4/2004	7.9		7.9	7.9
USGS	9/5/2004	8.9		8.9	8.9
USGS	9/6/2004	10			10
USGS	9/7/2004	6.1		6.1	6.1
USGS	9/8/2004	2.8	2.8	2.8	2.8
USGS	9/9/2004	2	2	2	2
USGS	9/10/2004	2	2	2	2
USGS	9/11/2004	1.7	1.7	1.7	1.7
USGS	9/12/2004	1.5	1.5	1.5	1.5
USGS	9/13/2004	1.4	1.4	1.4	1.4
USGS	9/14/2004	1.1	1.1	1.1	1.1
USGS	9/15/2004	1	1	1	1
USGS	9/16/2004	1.2	1.2	1.2	1.2
USGS	9/17/2004	1.1	1.1	1.1	1.1
USGS	9/18/2004	0.67	0.67	0.67	0.67
USGS	9/19/2004	0.28	0.28	0.28	0.28
USGS	9/20/2004	0.11	0.11	0.11	0.11
USGS	9/21/2004	0.09	0.09	0.09	0.09
USGS	9/22/2004	0	0	0	0
USGS	9/23/2004	0	0	0	0
USGS	9/24/2004	0	0	0	0
USGS	9/25/2004	0	0	0	0
USGS	9/26/2004	0	0	0	0
USGS	9/27/2004	0	0	0	0
USGS	9/28/2004	0	0	0	0
USGS	9/29/2004	0	0	0	0
USGS	9/30/2004	0	0	0	0
USGS	10/1/2004	0	0	0	0
USGS	10/2/2004	0	0	0	0
USGS	10/3/2004	0	0	0	0
USGS	10/4/2004	0	0	0	0
USGS	10/5/2004	3	3	3	3
USGS	10/6/2004	9.1		9.1	9.1
USGS	10/7/2004	13			13
USGS	10/8/2004	15			15
USGS	10/9/2004	14			14
USGS	10/10/2004	14			14
USGS	10/11/2004	16			16
USGS	10/12/2004	15			15
USGS	10/13/2004	18			18
USGS	4/1/2005	3.9	3.9	3.9	3.9
USGS	4/2/2005	3.1	3.1	3.1	3.1
USGS	4/3/2005	3.7	3.7	3.7	3.7
USGS	4/4/2005	1.7	1.7	1.7	1.7
USGS	4/5/2005	1.1	1.1	1.1	1.1

Data	Date	Flow (cfs)	Flows < 5 cfs	Flows < 10 cfs	Flows < 20 cfs
USGS	4/6/2005	0.53	0.53	0.53	0.53
USGS	4/7/2005	1	1	1	1
USGS	4/8/2005	2.7	2.7	2.7	2.7
USGS	4/9/2005	3.6	3.6	3.6	3.6
USGS	4/10/2005	2.7	2.7	2.7	2.7
USGS	4/11/2005	4.3	4.3	4.3	4.3
USGS	4/12/2005	5.7		5.7	5.7
USGS	4/13/2005	3.3	3.3	3.3	3.3
USGS	4/14/2005	2.5	2.5	2.5	2.5
USGS	4/15/2005	1.6	1.6	1.6	1.6
USGS	4/16/2005	1.5	1.5	1.5	1.5
USGS	4/17/2005	1.5	1.5	1.5	1.5
USGS	4/18/2005	1.6	1.6	1.6	1.6
USGS	4/19/2005	4.8	4.8	4.8	4.8
USGS	4/20/2005	5.5		5.5	5.5
USGS	4/21/2005	5.7		5.7	5.7
USGS	4/22/2005	7		7	7
USGS	4/23/2005	7.4		7.4	7.4
USGS	4/24/2005	19			19
USGS	4/25/2005	40			
USGS	4/26/2005	83			
USGS	4/27/2005	65			
USGS	4/28/2005	33			
USGS	4/29/2005	15			15
USGS	4/30/2005	6.5		6.5	6.5
USGS	5/1/2005	5.6		5.6	5.6
USGS	5/2/2005	9.9		9.9	9.9
USGS	5/3/2005	25			
USGS	5/4/2005	8.8		8.8	8.8
USGS	5/5/2005	18			18
USGS	5/6/2005	13			13
USGS	5/7/2005	19			19
USGS	5/8/2005	21			
USGS	5/9/2005	16			16
USGS	5/10/2005	8.7		8.7	8.7
USGS	5/11/2005	4.9	4.9	4.9	4.9
USGS	5/12/2005	5.6		5.6	5.6
USGS	5/11/2006	17			17
USGS	5/12/2006	11			11
USGS	5/16/2006	19			19
USGS	4/1/2007	14			14
USGS	4/2/2007	18			18

SEDIMENTATION POND - RIPRAP

Height of Riprap	5	
Riprap Width	15.8	ft

Riprap Length (1)	128	ft
Riprap Length (2)	128	ft
Riprap Length (3)	128	ft
Riprap Length (4)	128	ft
Total Riprap Length	512	ft

Riprap Depth	1.0	ft
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Riprap Volume of Side Slope	300	cy
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TOTAL RIPRAP VOLUME	300	CY
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Use for Cost Estimates	330	CY
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Species of Concern	Global Rank	State Rank	USFWS	USFS	BLM
Northern Leopard Frog	G5	S1S3			SENSITIVE
Lark Bunting	G5	S3B			
Chestnut-collared Longspur	G5	S3B			SENSITIVE
Greater Sage-grouse	G4	S3		SENSITIVE	SENSITIVE
Peregrine Falcon	G4	S2B	DM	SENSITIVE	SENSITIVE
Sage Thrasher	G5	S3B			SENSITIVE
Brewer's Sparrow	G5	S2B			SENSITIVE

Town of Melstone
PWSID # MT0000290

Public Water System

SOURCE WATER DELINEATION AND
ASSESSMENT REPORT

Date of Report: 03/09/04

Melstone PWS Operator:

Wanda Jean Yocum
Box 237
Melstone, MT 59054
(406) 358-2301

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FIGURE 6. TOWN OF MELSTONE PWS SPILL RESPONSE REGION LAND COVERS AND SIGNIFICANT POTENTIAL CONTAMINANT SOURCES.

FIGURE 7. TOWN OF MELSTONE PWS WATERSHED REGION LAND COVERS AND SIGNIFICANT POTENTIAL CONTAMINANT SOURCES.

INTRODUCTION

This Delineation and Assessment Report was prepared by Perri P. May, Hydrogeologist in the Source Water Protection Program of the Montana Department of Environmental Quality (DEQ). The public water supply (PWS) discussed in this report is located in Musselshell County, Montana. The DEQ PWS identification number, operator names, and contact number for the Town of Melstone PWS appear on the title page of this report.

Purpose

This report is intended to meet the technical requirements for the completion of the source water delineation and assessment report for the Town of Melstone PWS as required by the Montana Source Water Protection Program (DEQ, 1999) and the federal Safe Drinking Water Act (SDWA) Amendments of 1996 (P.L. 104-182). The Montana Source Water Protection Program is intended to be a practical and cost-effective approach to the protection of public drinking water supplies from contamination. The primary purpose of this source water delineation and assessment report is to provide information to assist the Town of Melstone PWS operators in the identification of potential contaminant sources near their surface water intake, and the need for a source water protection plan to protect the Town of Melstone drinking water source. A source water protection plan is warranted for this PWS, as its source water is highly susceptible to a number of identified potential contaminant sources.

Delineation and assessment constitute major components of the Montana Source Water Protection Program. Delineation entails mapping the boundaries of source water protection areas, which encompass ground water and/or surface waters contributing to public water supply sources. Assessment involves identifying locations or regions within source water protection areas where contaminants may be generated, stored, transported, or disposed, and determining the relative susceptibility of drinking water to contamination from these sources.

Limitations

This report was prepared to assess threats to the identified public water supplies, and is based on published data and information obtained from local residents familiar with the community. The terms “drinking water supply” and “drinking water source” refer specifically to the sources of the public water supplies, and not any other public or private water supply. Also, not all potential or existing sources of ground -water or surface-water contamination in the area of the surface water intake are identified. Only potential sources of contamination in areas that contribute water to the identified drinking water sources are considered.

The term “contaminant” is used in this report to refer to constituents for which maximum concentration levels (MCLs) have been specified under the national primary drinking water standards, and to certain carcinogenic or toxic constituents that do not have MCLs but are considered to be significant health threats.

CHAPTER 1 BACKGROUND

The Community

Melstone is located approximately 82 miles southeast of Lewistown in Musselshell County ([Figure 1](#)).

Melstone was founded as a Milwaukee Railroad station (Cheney, 2000). The town was named after an Associated Press reporter, Melvin Stone. He accompanied the president of the railroad during a tour when the president was assigning names to towns along the tracks. The first post office was established in Melstone in 1908

(<http://www.visitmt.com>). Dry land farmers settled the lands surrounding the town, but were largely unsuccessful due to inadequate water supplies. Coal mining was initiated on a commercial scale in the Muselshell drainage in 1907, shortly following the completion of the Chicago, Milwaukee & St. Paul railway (Ellis and Meinzer, 1924). Currently, the acreage in the vicinity of Melstone is predominantly utilized for oil production (Cheney, 2000).

The population of Melstone was estimated at 136, based on tallies conducted during the 2000 U.S. Census. The Melstone population has declined from an estimate of 170, based on data collected in the 1990 U.S. Census. U.S. 12 connects Melstone with Forsyth to the east and Roundup to the west. The Chicago, Milwaukee, and St. Paul railroad continues to service the town today.

Climate

The climate in the vicinity of Melstone is semi-arid.(See [Figure 2](#)) Based on Western Regional Climatic Center data for the July 1, 1948 to December 31, 2001 period of record, annual precipitation averages 14.34 inches. Monthly average precipitation ranges from 0.45 inches in February to 2.59 inches in June. Intense, localized thunderstorms commonly occur from May through July. The annual mean snowfall in Melstone is 47.6 inches. Periodic drought cycles (as defined by moving annual precipitation averages less than 10 inches) occur in the region at approximately 10 to 20 year intervals. Evaporation rates are high, averaging 25 to 35 inches per year.

Geographic Setting

Melstone is located in the Musselshell River valley at 46.5986° North Latitude and – 107.8721° West Longitude at 2,920 feet above mean sea level. The town is situated in the Great Plains physiographic province of North America (Rocky Mountain Association of Geologists, 1972), and the glaciated central ground-water region of the United States (Heath, 1984).

Multiple episodes of tectonic compression have formed large and small fold structures and numerous associated faults in the Paleozoic and Mesozoic sedimentary rocks that underlie the area. Bedrock benches in the area are commonly capped by Quaternary gravel deposits sloping south to southeast towards the Musselshell River (Porter and Wilde, 1999).

The terrain around Melstone consists of rolling plains and high benches. The benches are deeply dissected by the Musselshell River and its tributaries, and are bound on the northwest by the Little Snowy Mountains (Porter and Wilde, 1999). The plains are underlain by alternating beds of sandstone and shale that have been folded and differentially eroded. As a result, the plains are characterized by flat shale lowlands separated by sandstone ridges (Ellis and Meinzer, 1924). Terrace gravels that rise gradually and become more continuous towards the Snowy Mountains blanket the highest surfaces of the plains (Bowen, 1918). The Bull Mountains bound the Musselshell Valley plains to the south. These mountains consist of a group of mesas formed via erosion of the surrounding plains (Ellis and Meinzer, 1924). The flat tops of the mesas are edged by steep slopes and cliffs. The mesas are cored by alternating sandstone and shale units, which have been preserved in part due to the burning of coal beds, which hardened the sandstone and shale units, rendering them resistant to erosion (Ellis and Meinzer, 1924).

The Town of Melstone's surface water intake and distribution system are located in the Middle Musselshell watershed. The U.S. Geological Survey hydrologic unit code for this watershed is 10040202. The Musselshell drainage is oriented northeast-southwest near Melstone, with a flow direction to the northeast.

Geology

This section provides an overview of the geology and hydrology of the area in the vicinity of the Town of Melstone's surface water intake. The geology of the area can be used to determine the locations, boundaries, and hydraulic properties of local aquifers. An understanding of hydrogeologic conditions also provides an explanation for the sensitivity of local aquifers and surface waters to potential contamination sources.

Numerous sedimentary bedrock formations are exposed in the Musselshell River watershed ([Figure 3](#)). To the north, bedrock formations exhibit northwest-trending folds and faults of the Central Montana uplift (Miller, 1988). To the south, bedrock formations

dip into the Bull Mountain Basin. To the east, bedrock formations dip to the east. The Cretaceous Judith River, Bearpaw Shale, Fox Hills and Hells Creek formations, the Paleocene Fort Union formation, and Musselshell River Quaternary alluvium outcrop in the vicinity of Melstone (Miller, 1988). The Town of Melstone and the Town's surface water intake are situated on the Quaternary alluvium of the Musselshell River Valley. The alluvium is underlain by Cretaceous Bearpaw shale, which is also exposed just north and south of the Musselshell River floodplain ([Figure 3](#)). The Hell Creek formation, composed of gently south-dipping sandstones and shales, outcrops just south of the Bearpaw shale. The Fort Union formation, composed of massive sandstones, shales, and coals, is exposed just south of the Hell Creek formation, and underlies the Musselshell River alluvium two miles upstream from Melstone's intake location. The Judith River and Claggett formations crop out northwest of Melstone ([Figure 3](#)).

The Quaternary alluvium blanketing the Musselshell alluvium is composed of gravels, sands, silts, and clays (Ellis and Meinzer, 1924). Where the alluvium is composed of coarse-grained sediments such as gravel and sands, ground-water yields are appreciable. In areas where the alluvium is predominantly composed of silts and clays, both yields and water quality are poor (Ellis and Meinzer, 1924). The Paleocene Fort Union formation in the Musselshell Valley consists of beds of massive resistant sandstone, clay, shale, and coal (Ellis and Meinzer, 1924). This formation is water-bearing, but yields are generally small, and sandstone lenses and coal units comprise the principal water sources in the formation. The Cretaceous Bearpaw shale in the Valley is predominated by shale containing calcareous concretions, and some sandstone units near the base of the formation. This formation is generally not water-bearing (Ellis and Meinzer, 1924). The Cretaceous Hell Creek formation in the vicinity of Melstone consists of alternating beds of massive sandstone and shales. This formation is generally water-bearing, with principal water sources in the sandstone beds, particularly the basal sandstone member (Ellis and Meinzer, 1924). The Cretaceous Judith River formation is composed of sandstones and shales. This formation generally yields adequate supplies of water for domestic and stock use (Ellis and Meinzer, 1924). The Claggett formation consists of shale with some minor sandstone units, and similarly to the Bearpaw shale, this formation is generally not water-bearing.

General Description of the Source Water

The source water for the Town of Melstone is obtained through a surface water intake on the Musselshell River. The intake is located approximately one mile south of Melstone on the river ([Figure 4](#)).

Snowmelt in the Crazy Mountains, the Castle Mountains the Little Belt Mountains, and the Big Snowy Mountains in the headwaters of the basin is an important source of water for the Musselshell River. The drainage has a total area of 8000 square miles (Vining et al., 1996). Irrigation is the principal water use in the basin. Water is used to irrigate approximately 47,000 acres of cropland in the drainage (Vining et al., 1996). Serious

water shortages occur during some years due to the large natural variability of streamflows in the basin.

Downstream from Martinsdale, where the river emerges onto broad, flat plains, and continuing east to Melstone, tributaries to the Musselshell are predominantly intermittent and subject to large variations in flow. These intermittent channels respond quickly to sporadic but intense rainstorms during the spring and summer months (Vining et al., 1996).

Due to successive years of drought conditions and the natural variability in streamflows in the Musselshell drainage, Melstone has experienced severe water shortages over the past few years (Montana Engineering and Administration, 2002). Musselshell River flows have been further depleted by numerous upstream water withdrawals for irrigation. In July, 2002, the Musselshell River was completely dry at the Town of Melstone's intake (Montana Engineering and Administration, 2002). As a result, the Town has been pursuing alternative water sources, and recently drilled a new water supply well to potentially supplement the drinking water supply.

Raw water from the Musselshell River has seasonally high turbidity and total dissolved solids (TDS). Ground waters are a major source of dissolved solids, especially during baseflow, or low conditions from late summer through late winter (Ellis and Meinzer, 1924). Intense summer rain events also flush poor quality water high in suspended sediment concentrations from intermittent streams during spring snowmelt and rainstorm events.

The Public Water Supply

The Town of Melstone PWS is classified as a community system under the Federal Safe Drinking Water Act, because the system serves at least 25 year-round residents through at least 15 service connections. The PWS services 181 residents via 77 active service connections.

The Musselshell River is the primary water supply source. The latitude of the surface water intake location is 48.5852°N, and the longitude is -107.8683°W. Musselshell River water is drawn into a single inlet line via two pumps operating on an alternating sequence (Midwest Assistance Program, 2002). In 2001, the Town installed a fire pump inside the intake to more efficiently draw on lower Musselshell River flows. Typically, the Town initiated pumping when the standing water level in the intake was between 16 and 20 inches (Montana Engineering and Administration, 2002). The raw water is pumped directly from the inlet into two pre-sedimentation basins. Alternatively, raw water is pumped into two large holding reservoirs prior to the pre-sedimentation basins during low river flow periods. Water is then pumped from the pre-sedimentation ponds into a caisson housing two submersible pumps, and on to the Town's dual train conventional package treatment plant (Midwest Assistance Program, 2002).

The Town of Melstone's source water treatment facility utilizes conventional filtration with coagulation and flocculation via the addition of liquid alum and cationic polymer (Midwest Assistance Program, 2002). Flocculation is followed by clarification and chlorination using two sodium hypochlorite (13%). The treated water is then pumped through multimedia filters, and into a clearwell. Finished water is then pumped from the plant to the distribution system and 0.275 million-gallon storage tank (Midwest Assistance Program, 2002).

Water Quality

Public water systems must conduct routine monitoring for contaminants in accordance with Federal Safe Drinking Water Act requirements. Parameters such as coliform bacteria, lead, copper, nitrate, nitrite, volatile organic chemicals (including hydrocarbons and chlorinated solvents), inorganic chemicals (including metals), synthetic organic chemicals (including pesticides), and radiological contaminants must be sampled in community PWSs and non-community, non-transient PWSs in accordance with schedules specified in the Administrative Rules of Montana. Transient, non-community PWSs are required to conduct routine monitoring for pathogens (including coliform bacteria), nitrate, and nitrite. All contaminant concentrations detected in required samples must comply with numeric maximum contaminant levels (MCLs) specified in the Federal Safe Drinking Water Act.

Background Water Quality Data for the Musselshell River Upstream of Melstone's Intake

Water quality data for the Musselshell River are available from the U.S. Geological Survey Musselshell River at Musselshell #06127500 gaging station located approximately 14 miles upstream from Melstone's surface water intake.

Table 1. Constituent concentrations in the Musselshell River for samples collected at the Musselshell River at Musselshell U.S.G.S. gaging station

Constituent	Sampling Dates	Concentration	MCL (dissolved conc. in mg/l)	MCLG (dissolved conc. in mg/l)	Secondary Standard (dissolved conc. in mg/l)
Specific Conductance ($\mu\text{S}/\text{cm}$)	11/08/82 to 06/19/01	580 – 3700	NA	NA	NA
Dissolved Oxygen (mg/l)	11/10/87 to 09/06/91	6.2 – 11.9	NA	NA	NA
Nitrite + Nitrate (as N), total	11/10/87 to 09/06/91	$\leq 0.01 - 0.3$	Nitrate = 10 Nitrite = 1	Nitrate = 10 Nitrite = 1	NA
Sulfate (mg/l)	11/10/87 to 09/06/91	200 – 1900	NA	NA	250
Fluoride,	11/10/87 to	0.2 – 0.7	4.0	4.0	2.0

dissolved (mg/l)	09/06/91				
Arsenic, total (µg/l)	06/28/88 to 07/23/91	1 - 6	0.05	NA	NA
Cadmium, total (µg/l)	06/28/88 to 07/23/91	≤1.00 – 1.00	0.005	0.005	NA
Chromium, total recoverable (µg/l)	06/28/88 to 07/23/91	1 - 30	0.1 (total conc)	0.1 (total conc)	NA
Iron, dissolved (µg/l)	11/10/87 to 09/06/91	≤10 - 40	NA	NA	0.3
Lead, total recoverable (µg/l)	06/28/88 to 07/23/91	≤5 - 25	0	TT; action level = 0.015	NA
Selenium, total (µg/l)	06/28/88 to 07/23/91	≤1.0 – 2.0	0.05	0.05	NA
Picloram, total recoverable (µg/l)	06/28/88 to 07/23/91	≤0.01 – 0.05	0.5	0.5	NA
2,4-D, total (µg/l)	06/28/88 to 07/23/91	≤0.01 – 0.11	0.07	0.07	NA
Dicamba, total (µg/l)	06/28/88 to 07/23/91	≤0.01 – 0.04	NA	NA	NA
Suspended sediment (mg/l)	11/10/87 to 09/06/91	27 - 1320	NA	NA	NA
Mercury, total recoverable (µg/l)	06/28/88 to 07/23/91	≤0.10 – 0.04	0.002	0.002	NA

The State of Montana classifies the Musselshell River drainage waters from the headwaters to Deadman's Basin diversion canal above Shamut (except for the mainstem from Hopley Creek to Deadman's Basin diversion canal) as B-1 surface water bodies. B-1 waters are considered suitable for drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supplies pursuant to the Administrative Rules of Montana 17.30.623. The State of Montana classifies the Musselshell River mainstem from Hopley Creek to Deadman's Basin diversion canal as a B-2 surface water body. B-2 waters are considered suitable for drinking, culinary and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and marginal propagation of salmonid fishes

and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supplies pursuant to the Administrative Rules of Montana 17.30.624.

The State of Montana classifies the Musselshell River drainage waters below Deadman's Basin diversion canal above Shamut (except for Deadman's Basin Reservoir, Careless Creek, Swimming Woman Creek, Flatwillow Creek above US Highway 87 crossing south of Grassrange, and South Willow Creek above the county road bridge in T10N, R24E, Section 7) as C-3 surface water bodies. C-3 waters are considered suitable for bathing, swimming and recreation; growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers. The quality of these waters is naturally marginal for drinking, culinary and food processing purposes, agricultural and industrial water supplies pursuant to the Administrative Rules of Montana 17.30.629.

The quality of water in the Musselshell River watershed varies considerably from place to place, mostly because of differences in geology, erosion rate, and land uses. Within the Middle Musselshell watershed, the segment of the Musselshell River mainstem from the watershed boundary at Roundup downstream to the Flatwillow Creek confluence is included on Montana's 2000 303(d) list of water-quality impaired water bodies. DEQ has determined that aquatic life and warm water fishery uses are partially supported on this segment of the river. The probable causes of impairment have been identified as flow alteration, other habitat alterations, and riparian degradation. The probable sources of impairment have been identified as agriculture, hydromodification, channelization, flow regulation/modification, habitat modification, and bank/shoreline modification.

In the Upper Musselshell watershed, the segment of the Musselshell River mainstem from the North and South Fork confluence downstream to the Deadman's Basin diversion is also included on Montana's 2000 303(d) list of water-quality impaired water bodies. DEQ has determined that aquatic life, cold water fishery, and primary contact/recreational uses are partially supported in this stretch of the river. Use for drinking water is fully supported on this segment. The probable causes of water-quality impairment have been identified as bank erosion, flow alteration, nutrients, other habitat alterations, and siltation. The probable sources of impairment have been identified as agriculture, crop-related sources, grazing-related sources, hydromodification, and channelization.

The segment of the upper Musselshell River mainstem from the Deadman's Basin diversion downstream to Roundup is also included on Montana's 2000 303(d) list of water-quality impaired water bodies. DEQ has determined that aquatic life and warm water fishery uses are partially supported in this stretch of the river. The probable causes of water-quality impairment have been identified as flow alteration, nutrients, other habitat alterations, riparian degradation, and siltation. The probable sources of impairment have been identified as agriculture, hydromodification, crop-related sources, grazing-related sources, and channelization.

Careless Creek in the Upper Musselshell watershed is also included on Montana's 2000 303(d) list of water-quality impaired water bodies. DEQ has determined that aquatic life

and warm water fishery uses are partially supported in this stream. The probable causes of water-quality impairment have been identified as flow alteration, other habitat alterations, riparian degradation, and siltation. The probable sources of impairment have been identified as agriculture, hydromodification, flow regulation/modification, grazing-related sources, habitat modification, and bank/shoreline modification.

Painted Robe Creek in the Upper Musselshell watershed is also included on Montana's 2000 303(d) list of water-quality impaired water bodies. DEQ has determined that aquatic life and warm water fishery uses are partially supported in this stream. The probable causes of water-quality impairment have been identified as nutrients, other habitat alterations, riparian degradation, and salinity/TDS/sulfates. The probable sources of impairment have been identified as agriculture, grazing-related sources, and crop-related sources.

Town of Melstone PWS Water Quality

Within the past five years, no positive fecal coliform samples were collected during routine contaminant monitoring. No maximum contaminant level (MCL) exceedances were noted for any other constituents monitored over the past five years, but detections of fluoride, uranium, nitrate + nitrite, bromodichloromethane, chlorodibromomethane, and chloroform were noted.

CHAPTER 2

DELINEATION

The source water protection area, or the land area that contributes water to the Town of Melstone's surface water intake, is delineated in this chapter. The purpose of delineation is to map the source of Melstone's drinking water and to define areas within which to prioritize source water protection efforts.

Source water protection areas for surface water sources are subdivided into spill response and watershed regions, each with separate management goals. The spill response region encompasses an area upstream of the Town of Melstone intake in which contaminants can be drawn into the intake with little lag time. The watershed region encompasses a portion of the Middle Musselshell watershed upstream of the Town of Melstone's surface water intake.

Hydrogeologic Conditions

The headwaters of the Musselshell River are alpine tributary streams located in the foothills of the Crazy, Castle, and Little Belt Mountains approximately 120 miles west of Melstone. Flow in the Musselshell River is augmented by diversion from the Yellowstone drainage and tributaries flowing from the Snowy Mountains. In total, the Musselshell River drains a total area of approximately 8,000 square miles (Vining et al., 1996).

Based on gaging data collected from 1928 through 2001 at the Musselshell River at Musselshell U.S.G.S. gaging station, mean monthly flows in the Musselshell River at this location range from a low of 71 cubic feet per second (cfs) in January to 587 cfs in June. Based on data collected at this station from 1946 through 1978, annual mean flows range from 30.6 cfs in 1961 to 654 cfs in 1975. The peak flow estimated at this station was 9,850 cfs on June 9, 1967. Musselshell River flows are highly variable. Flow is affected by annual and seasonal variations in runoff, and irrigation water diversion and storage.

Snowmelt, direct precipitation, surface runoff, diversions from neighboring drainages, and lateral inflow from alluvial and bedrock aquifers contribute to flow in the Musselshell River in the vicinity of the Town of Melstone intake. The Musselshell loses water to infiltration through the riverbed to underlying or adjacent aquifers, evapotranspiration, and water withdrawals. The majority of flow in the Musselshell River near Melstone comes from snowmelt in its headwaters and tributaries that flow southeast to northeast from the Crazy, Castle, Little Belt, and Snowy Mountains.

Using DEQ Source Water Protection Program criteria for ranking sensitivity (Table 2), the Town of Melstone's source water is considered highly sensitive to contamination. The sensitivity ranking is a result of the surface water source for the PWS.

Table 2. Source water sensitivity criteria (DEQ, 1999).

Source Water Sensitivity
High Source Water Sensitivity Surface water and GWUDISW Unconsolidated Alluvium (unconfined) Fluvial-Glacial Gravel Terrace and Pediment Gravel Shallow Fractured or Carbonate Bedrock
Moderate Source Water Sensitivity Semi-consolidated Valley Fill sediments Unconsolidated Alluvium (semi-confined)
Low Source Water Sensitivity Consolidated Sandstone Bedrock Deep Fractured or Carbonate Bedrock Semi-consolidated Valley Fill Sediments (confined)

Conceptual Model and Assumptions

If spilled or discharged directly into the Musselshell River a few miles upstream of Melstone, contaminants may be drawn into the surface water intake before plant operators can close it. Contaminants derived from sources farther removed from the intake throughout the watershed may be flushed into tributaries and subsequently into the Musselshell River during spring snowmelt or storm events, or may infiltrate aquifers which discharge to the river via hydraulic connections.

Delineation Results

Spill Response Region

Hydrogeologic mapping was utilized to delineate the spill response region for the Town of Melstone's intake ([Figure 4](#)). The region extends from the surface water intake along the Musselshell River upstream for a distance of 10 miles, in accordance with SWP guidance (DEQ, 1999). The region also encompasses a portion of the Musselshell watershed extending ½ mile from either side of the river channel centerline.

Watershed Region

The watershed region for the Town of Melstone PWS encompasses a portion of the Middle Musselshell watershed, which extends from the surface water intake upstream to the watershed boundary near Roundup ([Figure 5](#)). The U.S. Geological Survey hydrologic unit code for the Middle Musselshell watershed is 10040202.

Limiting Factors

The delineations for the Town of Melstone PWS spill response region and watershed region are based on fixed-distance and watershed mapping. The spill response region represents an approximation of the distance required for contaminants to reach the surface water intake with little lag time. Numerous assumptions are associated with the Source Water Protection Program (SWPP) criteria for spill response region delineations. Contaminant transport rates and concentrations will vary depending on river and reservoir flow conditions, ground water flux into the river and reservoir, contributions from overland flow, soil types, slope, characteristics of riparian vegetation, the extent of riparian vegetation buffer zones, the extent and duration of contamination, contaminant solution density, adsorption, mechanical dispersion, biological transformation, dilution, molecular diffusion, adsorption, precipitation, oxidation, complexation, and volatilization. As a result, some areas within the spill response region may be more conducive to contaminant transport than others, and should be designated as higher priority areas for source water protection efforts.

CHAPTER 3

INVENTORY

An inventory of potential sources of contamination was conducted to assess the susceptibility of the Town of Melstone PWS to contamination, and to identify priorities for source water protection planning. These inventories were conducted within the delineated spill response and watershed regions. The inventory for the Town of Melstone PWS focuses on facilities that generate, use, store, transport, or dispose potential contaminants, and on land types on which potential contaminants are generated, used, stored, transported, or disposed. Additionally, the inventory identifies potential sources of all primary drinking water contaminants and Cryptosporidium. Only significant potential contaminant sources were selected for detailed inventory. The significant contaminants posing potential threats to the Town of Melstone PWS include, pesticides, fertilizers, herbicides, petroleum hydrocarbons, VOCs, SOCs, nitrate, and pathogens. The inventory for the Town of Melstone PWSs also focuses on all activities in the spill response region, as well as general land uses and large potential contaminant sources in the watershed region.

Inventory Method

Available databases were initially searched to identify businesses and land uses that are potential sources of regulated contaminants in the inventory region. The following steps were followed:

Step 1: Land cover is identified from the National Land Cover Dataset compiled by the U.S. Geological Survey and U.S. Environmental Protection Agency (U.S.G.S., 2000). Land cover types in this dataset were mapped from satellite imagery at 30-meter resolution using a variety of supporting information.

Step 2: EPA's Envirofacts System was queried to identify EPA regulated facilities. This system accesses the following databases: Resource Conservation and Recovery Information System (RCRIS), Biennial Reporting System (BRS), Toxic Release Inventory (TRI), Permit Compliance System (PCS), and Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS). The available reports were browsed for facility information including the Handler/Facility Classification to be used in assessing whether a facility is a significant potential contaminant source.

Step 3: DEQ databases were queried to identify Underground Storage Tanks (UST), hazardous waste contaminated sites, landfills, and abandoned mines.

Step 4: A business phone directory was consulted to identify businesses that generate, use, or store chemicals in the inventory region. Equipment manufacturing and/or repair facilities, printing or photographic shops, dry cleaners, farm chemical suppliers, and wholesale fuel suppliers were targeted by Standard Industrial Codes.

Step 5: Major road and rail transportation routes were identified.

Step 6. All significant potential contaminant sources were identified in the inventory region and land uses and facilities that generate, store, transport, or dispose large quantities of hazardous materials were identified within the recharge region.

Potential contaminant sources are designated as significant if they fall into one of the following categories:

- | | |
|--|---|
| 1) Large quantity hazardous waste generators | 8) Wastewater lagoons or spray irrigation |
| 2) Landfills | 9) Septic systems |
| 3) Hazardous waste contaminated sites | 10) Sewered residential areas |
| 4) Underground storage tanks | 11) Storm sewer outflows |
| 5) Major roads or rail transportation routes | 12) Floor drains, sumps, or dry wells |
| 6) Cultivated cropland | 13) Abandoned or active mines |
| 7) Animal feeding operations | |

Inventory Results/Spill Response Region

Land covers within the spill response region for the Town of Melstone PWS include open water, commercial/industrial/transportation, forest, shrubland, grassland/herbaceous, small grains, row crops, and fallow ground ([Figure 6](#)). Predominant land covers in the region include small grains (25%), pasture/hay (24%), and grasslands/herbaceous (16%) ([Figure 6](#)). Cultivated cropland occupies 61% of the area of the spill response region.

Low on-site septic densities occur within the entire spill response region area, and there is no municipal sewer system located within the spill response region. No concentrated animal feeding operations are located in the spill response region.

Two oil and gas wells are located within the spill response region ([Figure 4](#)). Both of these wells are development wells, and neither has been used for the production of oil or gas. As a result, brine wastewater is not generated at any of these well locations, and they are not considered significant potential contaminant sources.

U.S. Highway 12 and the Chicago, Milwaukee & St. Paul Railway pass through the spill response region. Both of these transportation routes constitute significant potential contaminant sources in the event the spill of contaminants on the road or the tracks. Additionally, herbicides sprayed along these transportation corridors may pose a potential threat to the Town of Melstone's source water.

Numbers on the spill response region map ([Figure 4](#)) identify the locations of potential contaminant sources, and correspond to Map ID numbers in Table 3.

Table 3. Significant potential contaminant sources in the spill response region for the Town of Melstone PWS.

Source	Address Or Map ID Number	Potential Contaminants	Hazard
Cultivated Cropland	1	Fertilizers, pesticides, herbicides, pathogens, nitrate	surface runoff into Musselshell River; infiltration to shallow ground water and subsequent discharge to river
U.S. Highway 12	2	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	Spills; misapplication or over application of herbicides along transportation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river
Chicago, Milwaukee & St. Paul railway	3	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	Spills; misapplication or over application of herbicides along transportation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river

Inventory Results/Watershed Region

The watershed region for the Town of Melstone PWS encompasses the area of the Middle Musselshell River watershed upstream from Melstone's surface water intake, and the entire Upper Musselshell River watershed ([Figure 5](#)). Predominant land covers in the watershed region include grasslands/ herbaceous (61%), forest (17%), and small grains/row crops (10%) ([Figure 7](#)). Cultivated cropland occupies 17 % of the watershed region. Seven permitted confined animal feeding operations are located in the watershed region. On-site residential septic densities throughout the watershed region are predominantly low. Low septic densities occupy 99.9% of the total watershed area. The Roundup, Lavina, Ryegate, and Harlowtown municipal sewer systems are located in the watershed region. All municipal sewer systems and several small areas of high density on-site septic systems are proximal to the Musselshell River, where residential development is concentrated in the valley.

U.S. Highway 12, U.S. Highway 87, U.S. Highway 191, Montana Route 3, and the Chicago, Milwaukee & St. Paul Railway pass through the watershed region ([Figure 5](#)). U. S. Highway 12 and the Milwaukee & St. Paul Railway roughly parallel the Musselshell

River corridor. U.S. Highway 87, U.S. Highway 191, and Montana Route 3 only pass through the river corridor at crossings. Herbicides are commonly sprayed along roadways and railways such as U.S. Highway 12 and the Chicago, Milwaukee & St. Paul Railway for weed control purposes. There is also a potential for pesticides, fertilizers, petroleum hydrocarbons, SOCs, and VOCs transported along these routes to spill onto the roadway or railway and adjacent soils, possibly infiltrating shallow ground water or running off into the Musselshell River. Due to the proximity of U.S. Highway 12 and the Chicago, Milwaukee & St. Paul Railway to the Musselshell River corridor, these transportation routes are considered significant potential contaminant sources. Likewise, U.S. Highway 87, U.S. Highway 191, and Montana Route 3 are considered significant sources due to their proximity to the river at crossings and the potential for spills occurring at these locations.

Numerous oil and gas wells are located in the watershed region ([Figure 5](#)). A number of these wells are currently utilized for oil and/or gas production. A few of the production wells are located proximal to the Musselshell River corridor in a field north of the river near the town of Delphia, between the towns of Melstone and Musselshell. Due to the location of this field proximal to the Musselshell River corridor and approximately 22 miles upstream from the Melstone surface water intake, the production wells are considered significant potential contaminant sources.

Two branches of the Continental crude oil pipeline cross the Musselshell River upstream of Melstone's intake within the watershed region ([Figure 5](#)). Due to the potential for pipeline ruptures, spills, or leaks in the vicinity of the crossings, the pipeline is considered a significant potential contaminant source.

Several hazardous materials spill sites are located in the Upper Mussel watershed ([Figure 5](#)). None of these sites are located close to the Musselshell River. As a result, none of these sites are considered significant potential contaminant sources.

Numerous underground storage tanks are located within the watershed region ([Figure 5](#)). Several of these tanks have been reported as leaking. The tanks are not considered significant potential contaminant sources, as they generally generate smaller quantities of petroleum hydrocarbon contaminants, and the tanks situated nearest to Melstone's intake are located approximately 37 miles upstream near Roundup. Any contamination generated from these tanks would likely undergo significant degradation through natural attenuation in the underlying soils, shallow ground water, and/or the Musselshell River before reaching the Town of Melstone's intake.

Several municipal landfills are located in the watershed region ([Figure 5](#)). The Musselshell landfill, located in the river corridor approximately 13 miles downstream of Melstone's intake, is the only significant landfill potential contaminant source, due to its proximity to the river and to the intake structure. This solid waste disposal area was a Class II landfill, which was closed in 1981.

Two Montana state Superfund sites are located in the watershed. The Roundup Municipal Landfill is designated as a low priority Superfund site. This site was a Class II landfill that was closed in 1994. This site is located northeast of Roundup and approximately three miles north of the Musselshell River ([Figure 5](#)). This site is not considered a significant potential due to its low priority and its considerable distance from the river over which contaminant concentrations would likely be naturally attenuated. The second State Superfund site in the watershed is the Harlowtown Milwaukee Roundhouse, located in Harlowtown. This site has been designated as having a medium remediation priority. It is an inactive railroad repair and maintenance facility. This site is located close to the Musselshell River and approximately 103 miles upstream from Melstone's surface water intake. This site is not considered a significant potential contamination source due to the extensive distance between Harlowtown and Melstone's surface water intake, over which contamination concentrations would likely be attenuated.

Numerous permitted point discharges are located in the watershed region, including several feedlot discharges; the Lavina, Ryegate, and Harlowtown municipal wastewater treatment plant discharges; and a discharge from the Harlowtown oil skimmer ([Figure 5](#)). Although several of the wastewater treatment plants discharge directly to the Musselshell River, they are far enough upstream of Melstone's intake that they do not appear to present a significant threat to the quality of Melstone's source water. However, one discharge from a cattle feedlot on Carpenter Creek is located approximately 11 miles upstream of Melstone's intake and approximately 0.5 miles outside of the spill response region ([Figure 5](#)). This feedlot discharge may pose a significant threat to Melstone's source water due to its close proximity to the intake.

Several mines are located in the watershed region, including excavations for coal, copper, iron, silver, clay, manganese, lead, zinc, titanium, and other rare earth elements. None of the mines appear to present a significant threat to the quality of Melstone's source water. Most of the hard rock mines are located in the headwaters of the drainage, and do not appear to pose a significant threat to Melstone's source water due to the considerable distances from the mines to the intake ([Figure 5](#)). A coal mine, located approximately 2.5 miles south of the Musselshell River and southeast of Roundup, is closest to the intake location.

Numbers on the watershed region map ([Figure 5](#)) identify the locations of potential contaminant sources, and correspond to Map ID numbers in Table 4.

Table 4. Significant potential contaminant sources in the watershed region for the Town of Melstone PWS.

Source	Address Or Map ID Number	Potential Contaminants	Hazard
Cultivated Cropland	1	Fertilizers, herbicides, pesticides, pathogens, nitrate	Spills, over application or misapplication of fertilizers, herbicides, or pesticides, surface runoff into Musselshell River
U.S. Highway 12	2	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	Spills; misapplication or over application of herbicides along transporatation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river
Chicago, Milwaukee & St. Paul Railway	3	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	Spills; misapplication or over application of herbicides along transporatation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river
U.S. Highways 87 and 191, and Montana Route 3	4, 5, 6	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	Spills; misapplication or over application of herbicides along transporatation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river
Oil and Gas Production Wells	7	Total Dissolved Solids, Petroleum Hydrocarbons	Migration of brine wastewater into shallow ground water discharging to Musselshell River; surface runoff directly to to river
Continental Crude Oil Pipeline	8	Petroleum hydrocarbons	Spills, leaks, and ruptures; Surface runoff into river, infiltration to shallow ground water discharging to river
Foster Ranch Feedlot	9	Nitrates, pathogens	Surface runoff into Carpenter Creek and Musselshell River, infiltration to shallow ground water discharging to Carpenter Creek and Musselshell River

Inventory Update

The certified operators of the Town of Melstone PWS should update the inventory every year. Changes in land uses or potential contaminant sources should be noted and additions made as needed. The complete inventory should be submitted to DEQ every five years to ensure re-certification of the source water delineation and assessment report.

Inventory Limitations

The extent of the potential contaminant source inventory is limited in several respects. The inventory is based on data readily available through state documents, published reports, and GIS data. Documentation may not be readily available on some potential sources. As a result, all potential contaminant sources may not have been identified. In some instances, inadequate location information precluded the inclusion of potential sources in the inventory.

CHAPTER 4

SUSCEPTIBILITY ASSESSMENT

Susceptibility of the Town of Melstone's source water is determined by two factors: the potential of a contaminant reaching the intake and the resulting health hazard. Susceptibility is assessed in order to prioritize potential pollutant sources in the spill response region in order to guide management actions undertaken by local entities, in this case, the Town of Melstone and Musselshell County.

The goal of source water management is to protect the source water, manage significant potential contaminant sources in the spill response region, and ensure that land use activities in the watershed region pose minimal threats to the source water. Management priorities in the spill response region are determined by ranking the significant potential contaminant sources identified in the previous chapter according to susceptibility. Alternative management approaches that could be pursued by the Town of Melstone PWS owners and operators to reduce susceptibility are also included in this section of the report.

Susceptibility is determined by considering the hazard rating for each potential contaminant source and the existence of barriers that decrease the likelihood that contaminated water will reach the PWS intake (Table 5). The hazard presented by point sources of contaminants in Town of Melstone's spill response region depends on whether contaminants can discharge directly to the Musselshell River. Point source hazard is also dependent on the health affects associated with potential contaminants (Table 6). Hazard ratings for nonpoint sources are assigned based on criteria listed in Table 6 for septic systems, sanitary sewers, and cropped agricultural land. Barriers can be anything that decreases the likelihood that contaminated water will reach Melstone's surface water intake. Examples of barriers include: a vegetated riparian area, protective forest management practices, and dilution.

Table 5. Susceptibility to potential contaminant sources based on hazard and the presence of barriers.

	High Hazard	Moderate Hazard	Low Hazard
No Barriers	Very High Susceptibility	High Susceptibility	Moderate Susceptibility
One Barrier	High Susceptibility	Moderate Susceptibility	Low Susceptibility
Multiple Barriers	Moderate Susceptibility	Low Susceptibility	Very Low Susceptibility

Table 6. Hazard ranking assigned to various potential contaminant sources.

	High Hazard	Moderate Hazard	Low Hazard
Point Sources of All Contaminants	Potential for direct discharge to source water	Potential for discharge to GW that is hydraulically connected to SW	Potential contaminant sources within the watershed
Septic Systems	More than 300 per sq. mi.	50 – 300 per sq. mi.	Less than 50 per sq. mi.
Municipal Sanitary Sewer (% land use)	More than 50 % of region	20 to 50 % of region	Less than 20 % of region
Cropped Agricultural Land (% land use)	More than 50 % of region	20 to 50 % of region	Less than 20 % of region

Susceptibility ratings are presented individually for each significant potential contaminant source and each associated contaminant (Table 7). The susceptibility of each well to each potential contaminant source is assessed separately.

Susceptibility Assessment Results

The Town of Melstone's source water is highly susceptible to potential contamination from U.S. Highway 12 and the Chicago, Milwaukee & St. Paul Railway. The Town of Melstone's source water is moderately susceptible to potential contamination from cultivated cropland; U.S. Highways 87 and 191, and Montana Route 3; oil and gas production wells; the Continental Crude Oil Pipeline, and the Foster Ranch Feedlot. Table 7 displays the susceptibility assessment results for the Town of Melstone PWS surface water intake. The intake is susceptible to number of contaminants, including pathogens, nitrates, fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, and VOCs. Tables 3 and 4 list all the significant potential contaminant sources identified in the spill response and watershed regions for the Town of Melstone PWS.

The susceptibility results for each significant potential contaminant source identified follow:

U.S. Highway 12– The potential hazard imposed by pesticides, herbicides, fertilizers, VOCs and SOCs originating from U.S. Highway 12 is high. The road poses a high hazard because there is potential for a spill or an overapplication of herbicides originating on the road to directly discharge into the Musselshell River upstream from Melstone's surface water intake. The susceptibility of the PWS to pesticides, fertilizers, VOCs and SOCs originating from this source is also high. The only barrier identified for this source is a riparian zone greater than 50 feet wide throughout most of the spill response region, which facilitates the degradation of contaminants before they reach the river.

Chicago, Milwaukee & St. Paul Railway– The potential hazard imposed by pesticides, herbicides, fertilizers, VOCs and SOCs originating from the railway is high. The railway poses a high hazard because there is potential for a spill or an overapplication of herbicides originating along the tracks to directly discharge into the Musselshell River upstream from Melstone’s surface water intake. The susceptibility of the PWS to pesticides, fertilizers, VOCs and SOCs originating from this source is also high. The only barrier identified for this source is a riparian zone greater than 50 feet wide throughout most of the spill response region, which facilitates the degradation of contaminants before they reach the river.

Cultivated cropland – The potential hazard imposed by pathogens, nitrate, pesticides, herbicides, and fertilizers originating from agricultural lands is moderate. Cultivated agricultural lands occupy 61% of the spill response region, and 17% of the watershed region. The hazard posed by this land use is considered moderate, as the average percent occupation of cultivated croplands in both source water protection regions falls between 20% and 50% of the total area. The susceptibility of the intake to these agricultural sources of contamination is also moderate due to the identification of only a single barrier: a riparian zone greater than 50 feet wide throughout most of the spill response region. This well established riparian zone filters out suspended particulates and enables microbial degradation of contaminants in surface runoff before it reaches the Musselshell River.

U.S. Highways 87 and 91, and Montana Route 3– The potential hazard imposed by pesticides, herbicides, fertilizers, VOCs and SOCs originating from these roads is moderate. The roads pose a moderate hazard because there is limited potential for a spill or an overapplication of herbicides originating on the roads to directly discharge into the Musselshell River upstream from Melstone’s surface water intake. There is a greater likelihood that spills or an overapplication of herbicides originating on these roads may infiltrate into the underlying shallow ground water and subsequently discharge to the river. The susceptibility of the PWS to pesticides, fertilizers, VOCs and SOCs originating from these sources is also moderate. The only barrier identified for these sources is natural attenuation.

Gas production wells – The potential hazard presented by oil and gas production wells located in the watershed region is moderate. Brine wastewaters produced by these wells may potentially migrate into shallow ground water and eventually discharge to the Musselshell River upstream from Melstone’s surface water intake. The susceptibility of the Melstone intake to this potential contaminant source is also moderate, due to the identification of only a single natural attenuation barrier. The reduction of contaminant concentrations through biological processes (aerobic and anaerobic biodegradation, plant and animal uptake), physical phenomena (advection, dispersion, dilution, diffusion, volatilization, sorption/desorption), and chemical reactions (ion exchange, complexation, abiotic transformation). is likely to occur over the distances between these sources and the Town of Melstone’s surface water intake.

Continental Crude Oil Pipeline – The potential hazard presented by the branches of the Continental crude oil pipeline located in the watershed region is moderate. Petroleum hydrocarbons from leaking or ruptured lines have a limited potential to discharge directly into the Musselshell River at pipeline crossings, or, more likely, to migrate into shallow ground water and eventually discharge to the Musselshell River upstream from Melstone’s surface water intake. The susceptibility of the Melstone intake to this potential contaminant source is also moderate, due to the identification of only a single natural attenuation barrier.

Foster Ranch Feedlot – The potential hazard presented by the feedlot located on Carpenter Creek in the watershed region is moderate. Nitrates and pathogens emanating from the feedlot may potentially runoff into Carpenter Creek and flow into the Musselshell River, or migrate into underlying shallow ground water and eventually discharge to the Musselshell River upstream from Melstone’s surface water intake. The susceptibility of the Melstone intake to this potential contaminant source is also moderate, due to the identification of only a single natural attenuation barrier.

Table 7. Susceptibility assessment for significant potential contaminant sources in the spill response and watershed regions for the Town of Melstone PWS surface water intake.

Source	Contaminant	Map ID Number	Hazard	Hazard Rating	Barriers	Susceptibility	Management Recommendations
U.S. Highway 12	Herbicides, pesticides, fertilizers, petroleum hydrocarbons, VOCs, SOCs	2	Spills; misapplication or over application of herbicides along transportation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river	High	Filtration and degradation in riparian zone	High	Maintain preparedness of local emergency personnel through active training
Chicago, Milwaukee & St. Paul Railway	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	3	Spills; misapplication or over application of herbicides along transportation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river	High	Filtration and degradation in riparian zone	High	Maintain preparedness of local emergency personnel through active training
Cultivated Cropland	Fertilizers, herbicides; pesticides, pathogens, nitrate	1; See Figure 6 and Figure 7	Spills, over application or misapplication of fertilizers, herbicides, or pesticides, surface	Moderate	Filtration and degradation in riparian zone	Moderate	Educate landowners on the proper handling, storage, and disposal of pesticides and fertilizers; utilization of

			runoff into Musselshell River				agricultural best management practices
U.S. Highways 87 and 191, and Montana Route 3	Fertilizers, pesticides, herbicides, petroleum hydrocarbons, SOCs, VOCs	4, 5, 6	Spills; misapplication or over application of herbicides along transportation corridor; Surface runoff into river, infiltration to shallow ground water discharging to river	Moderate	Natural attenuation	Moderate	Maintain preparedness of local emergency personnel through active training
Gas production wells	Total Dissolved Solids, Petroleum Hydrocarbons	7	Migration of brine wastewater into shallow ground water discharging to Musselshell River; surface runoff directly to river	Moderate	Natural attenuation	Moderate	Proper disposal of brine wastewater
Continental Crude Oil Pipeline	Petroleum hydrocarbons	8	Spills, leaks, and ruptures; Surface runoff into river, infiltration to shallow ground water discharging to river	Moderate	Natural attenuation	Moderate	Operation and maintenance of leak detection systems; maintain preparedness of local emergency personnel through active training
Foster Ranch Feedlot	Nitrates, pathogens	9	Surface runoff into Carpenter Creek and Musselshell River, infiltration to shallow ground water discharging to Carpenter Creek and Musselshell River	Moderate	Natural attenuation	Moderate	Utilization of agricultural best management practices; compliance with conditions of CAFO permit

Management Recommendations

Management recommendations are included in the susceptibility table for the Town of Melstone PWS (Table 7). If these management recommendations are implemented, they may be considered additional barriers that will reduce the susceptibility of Melstone's intake to specific sources and contaminants.

Management recommendations fall into the following categories:

- Agricultural best management practices
- Education
- Emergency Response Plan

Agricultural best management practices (BMPs) – BMPs that address application and mixing of fertilizer and pesticides are a viable alternative to prohibition of their use. BMPs are generally voluntary but their implementation can be encouraged through education and technical assistance. BMPs may also be utilized to minimize surface runoff and soil erosion on cultivated fields, and to minimize riparian vegetation impacts from grazing.

Education - Educational workshops provided to the general public by the city, county, or state promote safe handling and proper storage, transport, use, and disposal of hazardous materials. Ongoing training provided to designated emergency personnel will promote the efficiency and effectiveness of emergency responses to hazardous material spills. Likewise, educational workshops provided to rural homeowners will promote the proper maintenance and replacement of residential septic systems. The EPA and the State of Montana can provide educational materials on these topics.

Emergency Response Plan - An Emergency Response Plan should be compiled and adopted by the Town of Melstone and Musselshell County. The effectiveness of this response plan will be maximized if it is updated on an annual basis to reflect changes in emergency contacts, emergency numbers, and resources available within the county to respond to an emergency situation, such as a hazardous material spill.

The Town of Melstone PWS operators, the Town of Melstone administration, and the Musselshell County administration should consider these management recommendations. Should contamination reach the Town of Melstone intake, the Town and County will likely need to work cooperatively to address remediation or relocation of the surface water intake.

CHAPTER 5 MONITORING WAIVERS

Waiver Recommendation

Based on past monitoring results and the susceptibility assessment of the Town of Melstone PWS intake, the PWS is not likely eligible for additional monitoring waivers. See Table 8 for the effect of identified potential contaminant sources on monitoring waiver eligibility. Currently, Melstone has Phase II and Phase V inorganic chemical monitoring waivers. The Town of Melstone PWS is not likely eligible for volatile organics and semivolatile organics waivers. For further monitoring waiver consideration, the Town of Melstone PWS should submit a letter to DEQ requesting additional monitoring waivers. The PWS also needs to provide additional information to DEQ regarding chemical use within the spill response region. The following sections in this chapter describe Montana's monitoring waiver procedures in more detail.

Table 8. Effect of identified potential contaminant sources on eligibility of the Town of Melstone PWS for monitoring waivers.

Source	Contaminant	Map ID Number	Susceptibility	Waiver Eligibility
U.S. Highway 12	Fertilizers, herbicides, pesticides, petroleum hydrocarbons, VOCs, SOCs	2	High	Will likely make PWS ineligible for VOC and SOC waivers
Chicago, Milwaukee & St. Paul Railway	Fertilizers, herbicides, pesticides, petroleum hydrocarbons, VOCs, SOCs	3	High	Will likely make PWS ineligible for VOC and SOC waivers
Continental Crude Oil Pipeline	Petroleum hydrocarbons	8	High	Will likely make PWS ineligible for VOC waiver
U.S. Highways 87 and 191, and Montana Route 3	Fertilizers, herbicides, pesticides, petroleum hydrocarbons, VOCs, SOCs	4, 5, 6	Moderate	May render PWSs ineligible for VOC and SOC waivers
Cultivated Cropland	Fertilizers, pesticides, pathogens, nitrate	1; See Figure 6 and Figure 7	Moderate	May render PWSs ineligible for SOC waivers
Oil and Gas Production Wells	Total dissolved solids, petroleum hydrocarbons	2	Moderate	May render PWSs ineligible for VOC waivers
Foster Ranch Feedlot	Nitrates, pathogens	9	Moderate	No waivers available for nitrate or pathogen monitoring (no effect on waiver eligibility)

Monitoring Waiver Requirements

The 1986 Amendments to the Safe Drinking Water Act require that community and non-community PWSs sample drinking water sources for the presence of volatile organic chemicals (VOCs) and synthetic organic chemicals (SOCs). The US EPA has authorized states to issue monitoring waivers for the organic chemicals to systems that have completed an approved waiver application and review process. All PWSs in the State of Montana are eligible for consideration of monitoring waivers for several organic chemicals. The chemicals diquat, endothall, glyphosate, dioxins, ethylene dibromide (EDB), dibromochloropropane (DBCP), and polychlorinated biphenyls are excluded from monitoring requirements by statewide waivers.

Use Waivers

A Use Waiver can be allowed if through a vulnerability assessment, it is determined that specific organic chemicals were not used, manufactured, or stored in the area of a water source (or source area). If certain organic chemicals have been used, or if the use is unknown, the system would be determined to be vulnerable to organic chemical contamination and ineligible for a Use Waiver for those particular contaminants.

Susceptibility Waivers

If a Use Waiver is not granted, a system may still be eligible for a Susceptibility Waiver, if through a vulnerability assessment it is demonstrated that the water source would not be susceptible to contamination. Susceptibility is based on prior analytical or vulnerability assessment results, environmental persistence, and transport of the contaminants, natural protection of the source, wellhead protection program efforts, and the level of susceptibility indicators (such as nitrate and coliform bacteria). The vulnerability assessment of a surface water source must consider the watershed area above the source, or a minimum fixed radius of 1.5 miles upgradient of the surface water intake. PWSs developed in unconfined aquifers should use a minimum fixed radius of 1.0 miles as an area of investigation for the use of organic chemicals. Vulnerability assessment of spring water sources should use a minimum fixed radius of 1.0 miles as an area of investigation for the use of organic chemicals. Shallow groundwater sources under the direct influence of surface water (GWUDISW) should use the same area of investigation as surface water systems; that is, the watershed area above the source, or a minimum fixed radius of 1.5 miles upgradient of the point of diversion. The purpose of the vulnerability assessment procedures outlined in this section is to determine which of the organic chemical contaminants are in the area of investigation.

Given the wide range of landforms, land uses, and the diversity of groundwater and surface water sources across the state, additional information is often required during the review of a waiver application. Additional information may include well logs, pump test data, or water quality monitoring data from surrounding public water systems; delineation of zones of influence and contribution to a well; Time-of-Travel or attenuation studies; vulnerability mapping; and the use of computerized groundwater flow and transport

models. Review of an organic chemical monitoring waiver application will be conducted by DEQ's Public Water Supply Section and DEQ's Source Water Protection Program. Other state agencies may be asked for assistance.

Susceptibility Waiver for Surface Water

Shallow unconfined aquifers and surface water bodies are the most common source of usable groundwater in Montana. Unconfined aquifers and many surface water bodies are usually locally recharged by precipitation. In general, shallow groundwater flow gradients in unconfined aquifers reflect surface topography, and the residence time of water in the aquifer is comparatively shorter than for water in confined aquifers. Residence time in surface water bodies such as streams and narrow lakes is considered small, as the water moves through the system rather quickly. Water contained in large lakes and reservoirs may have variable residence times based on seasonal turnover, inversions, stagnant depths or reaches of the lake water, and throughput of water in the water body. Similar water chemistry often exists between shallow unconfined groundwater and surface water, and physical parameters and dissolved constituents can be an indicator of the hydraulic connection between groundwater and surface water. Consequently, unconfined aquifers can be susceptible to contamination by organic chemicals migrating from the ground surface to groundwater. Alternately, surface water bodies directly or indirectly receive a considerable percentage of their water from groundwater. Therefore, surface water can be susceptible to contamination by organic chemicals migrating from groundwater into the surface water.

The objective of the susceptibility waiver application is to assess the potential of organic chemical migration of contaminants into surface water that is used as a source. The general procedures make use of a combination of site-specific information pertaining to the location and construction of the water source development, monitoring history of the source, geologic/hydrologic characteristics of the source water, and chemical characteristics of the organic chemicals pertaining to their mobility and persistence in the environment. The area of contribution to the surface water body at the PWS intake must be defined and plotted. This should describe the water flow directions, stream discharge and velocity, residence time of water in the lake or reservoir (if the information is available). All surface bodies within a 1,000 feet of the PWS well(s) must be plotted. The Montana DEQ Source Water Protection Program typically will delineate and assess a larger (more conservative) area called a Spill Response Region that extends 1/2 mile downstream and approximately 10 miles upstream of the PWS surface water intake. It encloses the shoreline of any lakes along the length of the region. The width of the region extends 1/2 mile surrounding any lakes and on either side of the primary stream tributaries. Analytical monitoring history of the PWS intake should also be provided as part of the susceptibility waiver application.

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APPENDICES

APPENDIX A

SANITARY SURVEYS AND PWS SITE PLAN

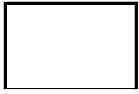
APPENDIX B

CONCURRENCE LETTER

CITY OF HARLOWTON
WATER QUALITY OF MUNICIPAL WELLS

CONSTITUENTS	UNITS	MCL/ SMCL	WELL #1 (FOX HILLS)	WELL #2 (LANCE)	WELL #6T (FOX HILLS)
Arsenic	µg/l	0.01	ND	0.008	ND
Calcium	mg/l	NA	3	15	12
Magnesium	mg/l	NA	ND	4	8
Sodium	mg/l	NA	570	804	362
Nitrate	mg/l	10	ND	ND	ND
Iron	mg/l	0.3	0.52	0.9	0.09
Manganese	mg/l	0.05	ND	0.05	ND
Chloride	mg/l	NA	22	13	10
Sulfate	mg/l	250	757	1,250	450
Fluoride	mg/l	4.0/2.0	1.39	0.81	1.1
Total Dissolved Solids	mg/l	500	1,370	2,250	1,050
Conductivity	µmhos	NA	2,110	3,410	1,680
pH	s.u.	6.5 - 8.5	8.8	8.6	8.1

YEAR	POPULATION	AVERAGE PER CAPITA DEMAND	AVERAGE DAY DEMAND		PEAKING FACTOR	PEAK DAY DEMAND		PEAKING FACTOR	PEAK HOUR DEMAND
			gpd	gpm		gpd	gpm		
2006	158	150	23,700	16.5	3.5	82,950	57.6	2.0	115.2
2010	164	150	24,600	17.1	3.5	86,100	59.8	2.0	119.6
2020	182	150	27,300	19.0	3.5	95,550	66.4	2.0	132.7
2030	201	150	30,150	20.9	3.5	105,525	73.3	2.0	146.6
			11,004,750	7,642.2		38,516,625	26,747.7		



MELSTONE PERTINENT FILES FOR THE PER: SUMMARY

GENERAL CORRESPONDENCE,

RD and CDBG and DEQ and Town correspondence should be reviewed first, get a good background

Note a conversation with Jerry Burns where he says getting rid of the sediment in the backwash ponds would require use of a Class 2 landfill due to alum sludge. See also the contact for source water monitoring from the EPA, he was very helpful.

SURFACE WATER TREATMENT—1

Microfiltration and Surface Water Treatment subfiles

For any Surface water treatment would first need to do a pilot study for 3 or 4 seasons.

We've talked to Eric Giebel from Pall and someone from Koch. A good contact is Michelle Chapman-Wibert from the BOR, recommended by Karen Sanchez (303 445 2264, mchapman@do.usbr.gov)

See proposal from Pall for a system costing \$340k. Should request and update if this goes further.

I do not trust Filter Tech due to their lack of experience.

US Filter is good, though we did have problems with Roman Aquilera, the rep, on the Gardiner project.

We have to be able to get rid of the brine and the WWTP is not an option as it is too far away and already overloaded. Could possibly use area onsite as an evap pond. Note that another means is to have a dedicated secondary microfiltration unit (a dedicated skid unit) to recover much of the waste. With this type of system only lose about 1% of water in as opposed to a more common 5%.

Big concern is what the state will allow for log removal credit. There are EPA studies included in the file.

Note that the calcium and Mg levels in the river is variable, but I found one sample that showed 110 mg/l Ca (as Ca only NOT CaCO₃), and Mg was very high at 103 mg/l as Mg. This amounts to an extreme hardness of 702, which could be very harmful to membranes. However, it is likely that it is higher in the fall and winter, and not in spring and early summer due to higher runoff to groundwater recharge. See also Surface WTP Quality.

May want to consider bag and cartridge filters as a pretreatment, or use a "sandbox" around the inlet pipe from the raw water pond.

Would definitely need algae control (see separate file on algae control).

See also DEQ correspondence.

Slow Sand Filters

Not a good option. These are difficult to use in cold environments and there should be enough research to show that this is not a good idea. There's a nice 3-page write up on this that could be used to provide the elimination discussion in Chapter 6.

I do consider it feasible to use a sand filtering system in connection with microfiltration (or conventional floc-sed-filter system) where we have a raw water holding pond and we have a gravel and sand box around the intake to the plant to provide additional filtering, sort of like a

make-shift infiltration gallery in the pond. This could cut the NTU in and lengthen the life of the treatment system. I discussed this at length with Jerry Burns and he thinks it's a good idea. I think Lockwood uses something like this (check notes)

RO and RO/Froid

Some good info here, especially about alkalinity/hardness issues. Best to just cite the costs in the Gardiner report where we were looking at RO. O&M would be much higher per gallon for little Melstone. Also, may be worth contacting Michelle Chapman from the BOR, she should have the most recent data on costs (as with microfiltration). As I recall the units being offered by the army were not appropriate.

SURFACE WATER TREATMENT—2

Melstone Package Plants

Crystal did a lot of this research. They look cheap, but as we know the O&M is the killer and performance is not always what is promised (Melstone is supposed to have two trains that can do 100 gpm each, but they can only get about 75gpm I think total with both trains running. The anthracite was recently changed in the filters.)

Algae Control

Good research by Crystal. Definitely need for any surface water plant.

We should talk to Wanda about algae problems now and if they have started treatment. She may need to get some special certification depending on whether we use CuSO₄ or algicide.

Early Pond Etc.

Lisa did layout work for a raw water pond that could be squeezed in within the existing plant footprint. I have some pipe layouts that send raw water and/or well water to the raw water pond with options to go straight to the plant or to the settling pond above. Makes most sense to send raw water to the settling pond first since it would travel by gravity then to the new raw water pond. Algae control would be put in wherever the water entered. The layout also calls for the option of routing water through a sand filter pretreatment, but this is not likely worth pursuing. Good figures for the PER if surface water looks potentially feasible.

Surface WTP Quality

WTP water quality. Also included is raw water data, which would be important for any treatment system using raw water.

WTP

This is an old file, but provides a very good typed summary of the system. This and other notes should all be summed up in the first PER. They do use cationic polymer, which is considered good for flocking algae. The filters only do about 75 gpm with both operating, though they should do 100 gpm each. In PER I find that the main problem is lack of sedimentation, but filters may be bad too, though the anthracite was recently replaced.

LT2

This may be outdated, but good to get familiar with everything. Some presentations included. Includes a study regarding log removal for microfiltration and Michelle Chapman-Wilbert's info.

AGRI WELLS 2 AND 3

Bid and Contract

Agri Pay Req 4 & 5

Agri Labor

These are worth keeping close in case we need to deal with Agri again.

TANK AND CHEMICAL BUILDING

Tank and Building Sketches

Electric

Chemical Pumps

Blending

These files and the drawings were done while we were bidding and constructing wells 2, 3, and failed 4. We have done the survey and are at least 60% complete in design for a storage tank and chemical addition building. Who knows if it will ever be used.

If we don't do this work, we need to at least put in permanent alarms (O₂, H₂S, and CO₂) and an automatic ventilation system for the hydropneumatic tank vault. Would also require a hatchway entrance. If we keep the existing clearwell going at the plant, then no need to have chemical addition at the well 1 site. Though a tank would be great and allow us to use the wells better, it is not essential.

WELL T-6—1

Studies Leading up to T-6

This is a very comprehensive collection of groundwater studies that resulted in us finally giving up around the Well 1 area. These were sent to Bob Burgentino, with the Bureau of Mines and Geology who actually picked the great site.

Test Well T-6 to Bob B and Mark C.

Contains communication leading up to final decision where to go.

Environmental

Could be useful in the PER

WELL T-6—2

Well T-6 Specs and Payment

Contracts and Construction/Test

Vidic CO #1 and Payment

Quotes for the project and quality results

WELL T-6—2

Well T-6 Results

Includes well test and quantity (aquifer) testing, raw data and analysis.

T-6 Land, Turleys

Correspondence and agreements with Turleys. See also RD correspondence

WATER RIGHTS

Includes applications etc., for well #1 & 3 (later revised for just well #1) and for well #2. Water rights are in place now. Doug Mann is the guy to call in Lewistown about water rights, his number is 538 – 7459.





PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

City: MUSSELSHELL

County: MUSSELSHELL

Tot Pop:75

Pri Src: GW

Class: C

Last Snty Srv Dt: 02/13/2008

Activity Status: A

Type	Conn's	In Srvs Dts	Eff Begin Dt	Avg Daily Cnt	Type
RS	45	1/1-12/31	03/03/2005	75	R

Administrative Contact

RADEMACHER, ADAIR

Financial Contact

SANNER, KAYE

Operator

RETTIG, LYNN

Owner

CITY OF MUSSELSHELL

Facilities and Entry Points

Status: A 10/20/2000 **Fac ID** CH001 **COMMON HEADER** **Src:** GW

Lat/Long Dec:

DMS:

Smp Pt ID	Status	Description
EP502	A 10/20/2000	EP FOR WELL 1 2

Status: A 10/05/2000 **Fac ID** DS001 **DISTRIBUTION SYSTEM** **Src:** GW

Lat/Long Dec:

DMS:

Smp Pt ID	Status	Description
SP001	A 03/31/2000	SP FOR DS

Status: A 03/03/2005 **Fac ID** PC001 **PRESSURE CONTROL** **Src:** GW

Lat/Long Dec:

DMS:

Status: I 03/03/2005 **Fac ID** ST001 **STORAGE FACILITY** **Src:** GW

Lat/Long Dec:

DMS:

Status: A 10/05/2000 **Fac ID** WL002 **WELL 1** **Src:** GW

Lat/Long Dec:

DMS:

Status: A 10/05/2000 **Fac ID** WL003 **WELL 2** **Src:** GW

Lat/Long Dec:

DMS:



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Sample Schedules/Monitoring Requirements

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM

Status: A Src:GW

Smp Pt I	Active	Smp Pt Descriptio
SP001	A	SP FOR DS

Group	Name	Schd Beg Dat	Seas Coll Pe	Requiremen
3100	COLIFORM, TOTAL (TCR)	05/01/2005	1/1-12/31	1 RT MN

Fac ID: CH001 Fac Name: COMMON HEADER

Status A Src GW

Smp Pt I	Active	Smp Pt Descriptio
EP502	A	EP FOR WELL 1 2

Group	Name	Schd Beg Dat	Init MP Be	Seas Coll Pe	Requiremen
ARSE	CDS ARSENIC	01/01/1999	01/01/1999	1/1-12/31	1 RT 3Y
COMB	CDS RADIUMS COMBINED	01/01/2008	01/01/2008	1/1-12/31	1 RT 9Y
GRAL	CDS RAD GROSS ALPHA	01/01/2008	01/01/2008	1/1-12/31	1 RT 6Y
INO2	CDS P5 INORGANICS	01/01/1999	01/01/1999	1/1-12/31	1 RT 3Y
INO4	CDS W P-2 INORGANICS	01/01/2002	01/01/2002	1/1-12/31	1 RT 9Y
NITR	CDS NITRATE NITRITE	01/01/2000	01/01/2000	1/1-12/31	1 RT YR
SOC1	CDS SOC	01/01/2008	01/01/2008	1/1-12/31	1 RT 3Y
VOC1	CDS VOC	01/01/2002	01/01/2002	1/1-12/31	1 RT 3Y

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM

Status A Src GW

Smp Pt I	Active	Smp Pt Descriptio
SP001	A	SP FOR DS

Group	Name	Schd Beg Dat	Init MP Be	Seas Coll Pe	Requiremen
PBCU	CDS LEAD COPPER ONLY	01/01/2002	01/01/2002	6/1-9/30	5 RT 3Y

Bacti Results

FROM 01/01/2000 TO 03/19/2008

Collection D	Lab Numbe	Type	Orig Lab	Code	TCR Presenc	Fec/EC Result
01/24/2008	B08011558-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
01/24/2008	B08011558-001	ART		3014	COLIFORM, E. COLI	A -
12/20/2007	B07121652-001	ART		3014	COLIFORM, E. COLI	A -
12/20/2007	B07121652-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
11/25/2007	B07111662-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
10/28/2007	B07102243-001	ART		3014	COLIFORM, E. COLI	A -
10/28/2007	B07102243-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
09/13/2007	B07091019-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
09/13/2007	B07091019-001	ART		3014	COLIFORM, E. COLI	A -
08/26/2007	B07082323-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
08/26/2007	B07082323-001	ART		3014	COLIFORM, E. COLI	A -
07/26/2007	B07072110-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
07/26/2007	B07072110-001	ART		3014	COLIFORM, E. COLI	A -
06/25/2007	B07062282-001	ART		3014	COLIFORM, E. COLI	A -
06/25/2007	B07062282-001	ART		3100	COLIFORM, TOTAL (TCR)	A -
05/23/2007	B07052060-001	ART		3014	COLIFORM, E. COLI	A -



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
05/23/2007	B07052060-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/27/2007	B07042448-001ART			3014	COLIFORM, E. COLI	A	-
04/27/2007	B07042448-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/26/2007	B07031942-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/26/2007	B07031942-001ART			3014	COLIFORM, E. COLI	A	-
02/15/2007	B07020920-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
02/15/2007	B07020920-001ART			3014	COLIFORM, E. COLI	A	-
01/22/2007	B07011284-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/22/2007	B07011284-001ART			3014	COLIFORM, E. COLI	A	-
12/14/2006	B06121029-001ART			3014	COLIFORM, E. COLI	A	-
12/14/2006	B06121029-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
11/21/2006	B06111424-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
11/21/2006	B06111424-001ART			3014	COLIFORM, E. COLI	A	-
10/20/2006	B06101530-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/20/2006	B06101530-001ART			3014	COLIFORM, E. COLI	A	-
09/22/2006	B06091755-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/22/2006	B06091755-001ART			3014	COLIFORM, E. COLI	A	-
08/29/2006	B06082433-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
08/29/2006	B06082433-001ART			3014	COLIFORM, E. COLI	A	-
07/21/2006	B06071593-001ART			3014	COLIFORM, E. COLI	A	-
07/21/2006	B06071593-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/28/2006	B06062418-001ART			3014	COLIFORM, E. COLI	A	-
06/28/2006	B06062418-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
05/25/2006	B06052178-001ART			3014	COLIFORM, E. COLI	A	-
05/25/2006	B06052178-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/13/2006	B06041053-001ART			3014	COLIFORM, E. COLI	A	-
04/13/2006	B06041053-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/20/2006	B06031225-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/20/2006	B06031225-001ART			3014	COLIFORM, E. COLI	A	-
02/16/2006	B06021133-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
02/16/2006	B06021133-001ART			3014	COLIFORM, E. COLI	A	-
01/26/2006	B06011555-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/26/2006	B06011555-001ART			3014	COLIFORM, E. COLI	A	-
12/21/2005	B05121216-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
12/21/2005	B05121216-001ART			3014	COLIFORM, E. COLI	A	-
11/21/2005	B05111346-001ART			3014	COLIFORM, E. COLI	A	-
11/21/2005	B05111346-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/24/2005	B05101426-001ART			3014	COLIFORM, E. COLI	A	-
10/24/2005	B05101426-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/20/2005	B05091331-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/20/2005	B05091331-001ART			3014	COLIFORM, E. COLI	A	-
08/25/2005	B05081927-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
08/25/2005	B05081927-001ART			3014	COLIFORM, E. COLI	A	-



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
07/22/2005	B05071530-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/22/2005	B05071530-001ART			3014	COLIFORM, E. COLI	A	-
06/20/2005	B05061441-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/20/2005	B05061441-001ART			3014	COLIFORM, E. COLI	A	-
05/31/2005	B05051966-001ART			3014	COLIFORM, E. COLI	A	-
05/31/2005	B05051966-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/21/2005	B05041670-001ART			3014	COLIFORM, E. COLI	A	-
04/21/2005	B05041670-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/21/2005	B05041670-002ART			3014	COLIFORM, E. COLI	A	-
04/21/2005	B05041670-002ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/21/2005	B05041670-003ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/21/2005	B05041670-003ART			3014	COLIFORM, E. COLI	A	-
04/21/2005	B05041670-004ART			3100	COLIFORM, TOTAL (TCR)	A -	
04/21/2005	B05041670-004ART			3014	COLIFORM, E. COLI	A	-
04/21/2005	B05041670-005ART			3014	COLIFORM, E. COLI	A	-
04/21/2005	B05041670-005ART			3100	COLIFORM, TOTAL (TCR)	A -	
03/28/2005	B05031632-001ARP	B05031180-C		3100	COLIFORM, TOTAL (TCR)	A -	
03/28/2005	B05031632-001ARP	B05031180-C		3014	COLIFORM, E. COLI	A	-
03/28/2005	B05031632-002ARP	B05031180-C		3014	COLIFORM, E. COLI	A	-
03/28/2005	B05031632-002ARP	B05031180-C		3100	COLIFORM, TOTAL (TCR)	A -	
03/28/2005	B05031632-003ARP	B05031180-C		3100	COLIFORM, TOTAL (TCR)	A -	
03/28/2005	B05031632-003ARP	B05031180-C		3014	COLIFORM, E. COLI	A	-
03/28/2005	B05031632-004ARP	B05031180-C		3014	COLIFORM, E. COLI	A	-
03/28/2005	B05031632-004ARP	B05031180-C		3100	COLIFORM, TOTAL (TCR)	A -	
03/21/2005	B05031180-001ART			3100	COLIFORM, TOTAL (TCR)	P +	
03/21/2005	B05031180-001ART			3014	COLIFORM, E. COLI	A	-
02/23/2005	B05021191-001ART			3014	COLIFORM, E. COLI	A	-
02/23/2005	B05021191-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/20/2005	B05010846-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
01/20/2005	B05010846-001ART			3014	COLIFORM, E. COLI	A	-
12/27/2004	B04121463-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
12/27/2004	B04121463-001ART			3014	COLIFORM, E. COLI	A	-
11/22/2004	B04111192-001ART			3014	COLIFORM, E. COLI	A	-
11/22/2004	B04111192-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/22/2004	B04101310-001ART			3100	COLIFORM, TOTAL (TCR)	A -	
10/22/2004	B04101310-001ART			3014	COLIFORM, E. COLI	A	-
09/16/2004	B04091040-002 RT			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091040-003 RT			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091040-004 RT			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091040-005 RT			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-001 RT			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-001ART			3014	COLIFORM, E. COLI	A	-
09/16/2004	B04091079-001ART			3100	COLIFORM, TOTAL (TCR)	A -	



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
09/16/2004	B04091079-002ART			3014	COLIFORM, E. COLI	A	-
09/16/2004	B04091079-002ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-003ART			3014	COLIFORM, E. COLI	A	-
09/16/2004	B04091079-003ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-004ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-004ART			3014	COLIFORM, E. COLI	A	-
09/16/2004	B04091079-005ART			3100	COLIFORM, TOTAL (TCR)	A -	
09/16/2004	B04091079-005ART			3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-001ART	B04071634-C		3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-001ART	B04071634-C		3100	COLIFORM, TOTAL (TCR)	A -	
08/20/2004	B04081331-002ART	B04071634-C		3100	COLIFORM, TOTAL (TCR)	A -	
08/20/2004	B04081331-002ART	B04071634-C		3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-003ART	B04071634-C		3100	COLIFORM, TOTAL (TCR)	A -	
08/20/2004	B04081331-003ART	B04071634-C		3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-004ART	B04071634-C		3100	COLIFORM, TOTAL (TCR)	A -	
08/20/2004	B04081331-004ART	B04071634-C		3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-005ART	B04071634-C		3014	COLIFORM, E. COLI	A	-
08/20/2004	B04081331-005ART	B04071634-C		3100	COLIFORM, TOTAL (TCR)	A -	
07/23/2004	B04071364-004ART			3100	COLIFORM, TOTAL (TCR)	A -	
07/23/2004	B04071634-001ART			3100	COLIFORM, TOTAL (TCR)	P +	
07/23/2004	B04071634-001ART			3014	COLIFORM, E. COLI	A	-
07/23/2004	B04071634-002ART			3100	COLIFORM, TOTAL (TCR)	P +	
07/23/2004	B04071634-002ART			3014	COLIFORM, E. COLI	A	-
07/23/2004	B04071634-003ART			3014	COLIFORM, E. COLI	A	-
07/23/2004	B04071634-003ART			3100	COLIFORM, TOTAL (TCR)	P +	
07/23/2004	B04071634-005ART			3100	COLIFORM, TOTAL (TCR)	A -	
06/21/2004	1611-1	RT		3014	COLIFORM, E. COLI	A	-
06/21/2004	1611-1	RT		3100	COLIFORM, TOTAL (TCR)	P +	
06/21/2004	1611-2	RT		3100	COLIFORM, TOTAL (TCR)	P +	
06/21/2004	1611-2	RT		3014	COLIFORM, E. COLI	A	-
06/21/2004	1611-3	RT		3100	COLIFORM, TOTAL (TCR)	P +	
06/21/2004	1611-3	RT		3014	COLIFORM, E. COLI	A	-
06/21/2004	1611-4	RT		3014	COLIFORM, E. COLI	A	-
06/21/2004	1611-4	RT		3100	COLIFORM, TOTAL (TCR)	P +	
06/21/2004	1611-5	RT		3014	COLIFORM, E. COLI	A	-
06/21/2004	1611-5	RT		3100	COLIFORM, TOTAL (TCR)	P +	
05/14/2004	943-001	RP	50600-1	3100	COLIFORM, TOTAL (TCR)	A -	
05/14/2004	943-002	RP	50600-1	3100	COLIFORM, TOTAL (TCR)	A -	
05/14/2004	943-003	RP	50600-1	3100	COLIFORM, TOTAL (TCR)	A -	
05/14/2004	943-004	RP	50600-1	3100	COLIFORM, TOTAL (TCR)	A -	
05/10/2004	50600-1	RT		3014	COLIFORM, E. COLI	A	-
05/10/2004	50600-1	RT		3100	COLIFORM, TOTAL (TCR)	P +	
04/20/2004	B04041264-001	RT		3100	COLIFORM, TOTAL (TCR)	A -	



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code		TCR Presenc	Fec/EC Result
03/12/2004	B04030724-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/17/2004	B04020732-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/20/2004	B04010724-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/15/2003	B03120813-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/17/2003	B03110713-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/28/2003	B03101447-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/23/2003	B03091170-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/13/2003	B03080640-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/22/2003	B03071242-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/12/2003	B03060723-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/22/2003	B03051290-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/24/2003	B03041368-1	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/18/2003	B03030709-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/25/2003	B03020947-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/14/2003	B03010565-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/17/2002	B02120784-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/18/2002	B02110835-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/17/2002	B02100896-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/18/2002	B02090949-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/09/2002	7089	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/26/2002	B02081242-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/09/2002	B02070418-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/24/2002	B02061351-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/31/2002	B02051599-001	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/22/2002	12023	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/08/2002	11708	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/20/2002	11606	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/21/2002	11451	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/03/2002	11159	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/11/2001	11037	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/27/2001	10964	RT		3100	COLIFORM, TOTAL (TCR)	A	-
10/25/2001	10780	RT		3100	COLIFORM, TOTAL (TCR)	A	-
09/24/2001	10518	RT		3100	COLIFORM, TOTAL (TCR)	A	-
08/21/2001	10257	RT		3100	COLIFORM, TOTAL (TCR)	A	-
07/23/2001	10019	RT		3100	COLIFORM, TOTAL (TCR)	A	-
06/20/2001	9776	RT		3100	COLIFORM, TOTAL (TCR)	A	-
05/29/2001	9623	RT		3100	COLIFORM, TOTAL (TCR)	A	-
04/19/2001	9380	RT		3100	COLIFORM, TOTAL (TCR)	A	-
03/22/2001	9226	RT		3100	COLIFORM, TOTAL (TCR)	A	-
02/26/2001	9067	RT		3100	COLIFORM, TOTAL (TCR)	A	-
01/18/2001	8868	RT		3100	COLIFORM, TOTAL (TCR)	A	-
12/12/2000	8643	RT		3100	COLIFORM, TOTAL (TCR)	A	-
11/20/2000	8502	RT		3100	COLIFORM, TOTAL (TCR)	A	-



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Collection D	Lab Numbe	Type	Orig Lab	Code	TCR Presenc	Fec/EC Result
10/25/2000	8351	RT		3100	COLIFORM, TOTAL (TCR)	A -
09/25/2000	8149	RT		3100	COLIFORM, TOTAL (TCR)	A -
08/23/2000	7917	RT		3100	COLIFORM, TOTAL (TCR)	A -
07/20/2000	7634	RT		3100	COLIFORM, TOTAL (TCR)	A -
06/20/2000	7382	RT		3100	COLIFORM, TOTAL (TCR)	A -
05/17/2000	7172	RT		3100	COLIFORM, TOTAL (TCR)	A -
04/18/2000	6975	RT		3100	COLIFORM, TOTAL (TCR)	A -
03/23/2000	6834	RT		3100	COLIFORM, TOTAL (TCR)	A -
02/23/2000	6690	RT		3100	COLIFORM, TOTAL (TCR)	A -
01/31/2000	6568	RT		3100	COLIFORM, TOTAL (TCR)	A -
01/24/2000	6543	RT		3100	COLIFORM, TOTAL (TCR)	A -

Chemical Results

FROM 01/01/2000 TO 03/19/2008

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src: GW

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 309-00-2	2356	ALDRIN	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 1912-24-9	2050	ATRAZINE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 57-74-9	2959	CHLORDANE	RT	11/29/2007	08	B07112052-001A	< MRL 1 UG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	11/29/2007	08	B07112052-001A	< MRL .5 UG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	11/29/2007	08	B07112052-001A	< MRL 2 UG/L
OC 60-57-1	2070	DIELDRIN	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 72-20-8	2005	ENDRIN	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 76-44-8	2065	HEPTACHLOR	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 51218-45-2	2045	METOLACHLOR	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 1918-16-7	2077	PROPACHLOR	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 122-34-9	2037	SIMAZINE	RT	11/29/2007	08	B07112052-001A	< MRL .1 UG/L
OC 8001-35-2	2020	TOXAPHENE	RT	11/29/2007	08	B07112052-001A	< MRL 2 UG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	11/29/2007	08	B07112052-001B	< MRL .2 UG/L
OC 94-75-7	2105	2,4-D	RT	11/29/2007	08	B07112052-001B	< MRL 1 UG/L
OC 75-99-0	2031	DALAPON	RT	11/29/2007	08	B07112052-001B	< MRL 2.5 UG/L
OC 1918-00-9	2440	DICAMBA	RT	11/29/2007	08	B07112052-001B	< MRL .25 UG/L
OC 88-85-7	2041	DINOSEB	RT	11/29/2007	08	B07112052-001B	< MRL 1 UG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	11/29/2007	08	B07112052-001B	< MRL .04 UG/L
OC 1918-02-1	2040	PICLORAM	RT	11/29/2007	08	B07112052-001B	< MRL .5 UG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 116-06-3	2047	ALDICARB	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 63-25-2	2021	CARBARYL	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 1563-66-2	2046	CARBOFURAN	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 16752-77-5	2022	METHOMYL	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	11/29/2007	24	B07112052-001C	< MRL .5 UG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	11/14/2007	08	B07111112-006A	< MRL .05 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 95-63-6	2418	1,2,4-TRIMETHYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 542-75-6	2413	1,3-DICHLOROPROPENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 71-43-2	2990	BENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 108-86-1	2993	BROMOBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 74-97-5	2430	BROMOCHLOROMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 74-83-9	2214	BROMOMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-00-3	2216	CHLOROETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 91-20-3	2248	NAPHTHALENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 100-42-5	2996	STYRENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 108-88-3	2991	TOLUENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
OC 1330-20-7	2955	XYLENES	RT	11/14/2007	08	B07111112-006B	< MRL .5 UG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/14/2006	08	B06121036-001A	< MRL .05 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	12/14/2006	08	B06121036-001B	< MRL 2 UG/L
IOC 7440-36-0	1074	ANTIMONY	RT	11/21/2005	08	B05111348-001A	< MRL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	11/21/2005	08	B05111348-001A	< MRL .001 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	11/21/2005	08	B05111348-001A	< MRL .001 MG/L
IOC 7440-02-0	1036	NICKEL	RT	11/21/2005	08	B05111348-001A	< MRL .01 MG/L
IOC 7440-28-0	1085	THALLIUM	RT	11/21/2005	08	B05111348-001A	< MRL .001 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	11/21/2005	08	B05111348-001B	0.05 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	11/21/2005	08	B05111348-001C	< MRL 2 UG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/27/2004	08	B04121465-001C	< MRL .05 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 95-63-6	2418	1,2,4-TRIMETHYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 542-75-6	2413	1,3-DICHLOROPROPENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 71-43-2	2990	BENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 108-86-1	2993	BROMOBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 74-97-5	2430	BROMOCHLOROMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 74-83-9	2214	BROMOMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-00-3	2216	CHLOROETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-09-2	2964	DICHLOROMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 91-20-3	2248	NAPHTHALENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 135-98-8	2428	SEC-BUTYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 100-42-5	2996	STYRENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 108-88-3	2991	TOLUENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC	2950	TOTAL TRIHALOMETHANES (TTHM)	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 1330-20-7	2955	XYLENES	RT	12/27/2004	08	B04121465-001D	< MRL .5 UG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 116-06-3	2047	ALDICARB	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 63-25-2	2021	CARBARYL	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 1563-66-2	2046	CARBOFURAN	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 16752-77-5	2022	METHOMYL	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	12/27/2004	24	B04121465-001E	< MRL .5 UG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	12/27/2004	08	B04121465-001F	< MRL .2 UG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 94-75-7	2105	2,4-D	RT	12/27/2004	08	B04121465-001F	< MRL 1 UG/L
OC 75-99-0	2031	DALAPON	RT	12/27/2004	08	B04121465-001F	< MRL 2.5 UG/L
OC 1918-00-9	2440	DICAMBA	RT	12/27/2004	08	B04121465-001F	< MRL .25 UG/L
OC 88-85-7	2041	DINOSEB	RT	12/27/2004	08	B04121465-001F	< MRL 1 UG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	12/27/2004	08	B04121465-001F	< MRL .04 UG/L
OC 1918-02-1	2040	PICLORAM	RT	12/27/2004	08	B04121465-001F	< MRL .5 UG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 309-00-2	2356	ALDRIN	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 1912-24-9	2050	ATRAZINE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 57-74-9	2959	CHLORDANE	RT	12/27/2004	08	B04121465-001G	< MRL 1 UG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	12/27/2004	08	B04121465-001G	< MRL .5 UG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	12/27/2004	08	B04121465-001G	< MRL 2 UG/L
OC 60-57-1	2070	DIELDRIN	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 72-20-8	2005	ENDRIN	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 76-44-8	2065	HEPTACHLOR	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 51218-45-2	2045	METOLACHLOR	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 1918-16-7	2077	PROPACHLOR	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 122-34-9	2037	SIMAZINE	RT	12/27/2004	08	B04121465-001G	< MRL .1 UG/L
OC 8001-35-2	2020	TOXAPHENE	RT	12/27/2004	08	B04121465-001G	< MRL 2 UG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/15/2003	08	B03120814-001-N502	< MDL .05 MG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	12/15/2003	08	B03120814-001-S502	< MDL .0002 MG/L
OC 309-00-2	2356	ALDRIN	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 1912-24-9	2050	ATRAZINE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0001 MG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0001 MG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	12/15/2003	08	B03120814-001-S502	< MDL .00002 MG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 57-74-9	2959	CHLORDANE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0002 MG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0006 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0006 MG/L
OC 60-57-1	2070	DIELDRIN	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 72-20-8	2005	ENDRIN	RT	12/15/2003	08	B03120814-001-S502	< MDL .00001 MG/L
OC 76-44-8	2065	HEPTACHLOR	RT	12/15/2003	08	B03120814-001-S502	< MDL .00004 MG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	12/15/2003	08	B03120814-001-S502	< MDL .00002 MG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0001 MG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	12/15/2003	08	B03120814-001-S502	< MDL .0001 MG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	12/15/2003	08	B03120814-001-S502	< MDL .0001 MG/L
OC 51218-45-2	2045	METOLACHLOR	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 1918-16-7	2077	PROPACHLOR	RT	12/15/2003	08	B03120814-001-S502	< MDL 0 MG/L
OC 122-34-9	2037	SIMAZINE	RT	12/15/2003	08	B03120814-001-S502	< MDL .00007 MG/L
OC 8001-35-2	2020	TOXAPHENE	RT	12/15/2003	08	B03120814-001-S502	< MDL .001 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	12/20/2002	08	B02121065-001-S502	< MDL .0006 MG/L
IOC 7440-36-0	1074	ANTIMONY	RT	12/17/2002	08	B02120841-001-I502	< MDL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	12/17/2002	08	B02120841-001-I502	< MDL .005 MG/L
IOC 7440-39-3	1010	BARIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .1 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .001 MG/L
IOC 7440-43-9	1015	CADMIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .001 MG/L
IOC 7440-47-3	1020	CHROMIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .01 MG/L
IOC 16984-48-8	1025	FLUORIDE	RT	12/17/2002	08	B02120841-001-I502	1.48 MG/L
IOC 7439-97-6	1035	MERCURY	RT	12/17/2002	08	B02120841-001-I502	< MDL .0002 MG/L
IOC 7440-02-0	1036	NICKEL	RT	12/17/2002	08	B02120841-001-I502	< MDL .01 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/17/2002	08	B02120841-001-I502	< MDL .05 MG/L
IOC 7782-49-2	1045	SELENIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .005 MG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC 7440-28-0	1085	THALLIUM	RT	12/17/2002	08	B02120841-001-I502	< MDL .001 MG/L
RA 4000		GROSS ALPHA, INCLDNG RA, EXCLDNG R	RT	12/17/2002	08	B02120841-001-R502	4.8 PIC/L
RA 4010		RADIUM, COMBINED (226, 228)	RT	12/17/2002	08	B02120841-001-R502	< MDL 1 PIC/L
RA 13982-63-3	4020	RADIUM-226	RT	12/17/2002	08	B02120841-001-R502	< MDL 1 PIC/L
RA 15262-20-1	4030	RADIUM-228	RT	12/17/2002	08	B02120841-001-R502	< MDL 1 PIC/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	09/20/2002	08	B02091071-001-S502	< MDL .0006 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	04/01/2002	08	B02040017-001-S502	2.7 UG/L
OC 93-72-1	2110	2,4,5-TP (SILVEX)	RT	12/14/2001	08	001-01-61127-S2502	< MDL .0002 MG/L
OC 94-75-7	2105	2,4-D	RT	12/14/2001	08	001-01-61127-S2502	< MDL .0001 MG/L
OC 75-99-0	2031	DALAPON	RT	12/14/2001	08	001-01-61127-S2502	< MDL .1 MG/L
OC 1918-00-9	2440	DICAMBA	RT	12/14/2001	08	001-01-61127-S2502	< MDL 0 MG/L
OC 88-85-7	2041	DINOSEB	RT	12/14/2001	08	001-01-61127-S2502	< MDL .0002 MG/L
OC 87-86-5	2326	PENTACHLOROPHENOL	RT	12/14/2001	08	001-01-61127-S2502	< MDL .00004 MG/L
OC 1918-02-1	2040	PICLORAM	RT	12/14/2001	08	001-01-61127-S2502	< MDL .0001 MG/L
OC 15972-60-8	2051	ALACHLOR (LASSO)	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0002 MG/L
OC 309-00-2	2356	ALDRIN	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 1912-24-9	2050	ATRAZINE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 50-32-8	2306	BENZO (A) PYRENE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 58-89-9	2010	BHC-GAMMA (LINDANE)	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00002 MG/L
OC 23184-66-9	2076	BUTACHLOR (MACHETE)	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00002 MG/L
OC 57-74-9	2959	CHLORDANE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0002 MG/L
OC 103-23-1	2035	DI(2-ETHYLHEXYL) - ADIPATE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0006 MG/L
OC 117-81-7	2039	DI(2-ETHYLHEXYL) - PHTHALATE	RT	12/14/2001	08	001-01-61127-S4502	5.8 UG/L
OC 60-57-1	2070	DIELDRIN	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00002 MG/L
OC 72-20-8	2005	ENDRIN	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00001 MG/L
OC 76-44-8	2065	HEPTACHLOR	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00004 MG/L
OC 1024-57-3	2067	HEPTACHLOR EPOXIDE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00002 MG/L
OC 118-74-1	2274	HEXACHLOROBENZENE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 77-47-4	2042	HEXACHLOROCYCLOPENTADIENE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 72-43-5	2015	METHOXYCHLOR	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 51218-45-2	2045	METOLACHLOR	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 21087-64-9	2595	METRIBUZIN (SENCOR)	RT	12/14/2001	08	001-01-61127-S4502	< MDL .0001 MG/L
OC 1918-16-7	2077	PROPACHLOR	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00002 MG/L
OC 122-34-9	2037	SIMAZINE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .00007 MG/L
OC 8001-35-2	2020	TOXAPHENE	RT	12/14/2001	08	001-01-61127-S4502	< MDL .001 MG/L
OC 630-20-6	2986	1,1,1,2-TETRACHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL 0 MG/L
OC 71-55-6	2981	1,1,1-TRICHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 79-34-5	2988	1,1,2,2-TETRACHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 79-00-5	2985	1,1,2-TRICHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-34-3	2978	1,1-DICHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-35-4	2977	1,1-DICHLOROETHYLENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 563-58-6	2410	1,1-DICHLOROPROPENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 2419		1,2,3 - TRIMETHYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 87-61-6	2420	1,2,3-TRICHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 96-18-4	2414	1,2,3-TRICHLOROPROPANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 120-82-1	2378	1,2,4-TRICHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 107-06-2	2980	1,2-DICHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 78-87-5	2983	1,2-DICHLOROPROPANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 108-67-8	2424	1,3,5-TRIMETHYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 142-28-9	2412	1,3-DICHLOROPROPANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 594-20-7	2416	2,2-DICHLOROPROPANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 71-43-2	2990	BENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 108-86-1	2993	BROMOBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 74-83-9	2214	BROMOMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 56-23-5	2982	CARBON TETRACHLORIDE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-00-3	2216	CHLOROETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 74-87-3	2210	CHLOROMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 156-59-2	2380	CIS-1,2-DICHLOROETHYLENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 10061-02-6	2228	CIS-1,3-DICHLOROPROPENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 74-95-3	2408	DIBROMOMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-71-8	2212	DICHLORODIFLUOROMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: CH001

Fac Name: COMMON HEADER

Avl:P

Status: A Src:

Smp Pt ID: EP502

Status: A Description: EP FOR WELL 1 2

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
OC 75-09-2	2964	DICHLOROMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 100-41-4	2992	ETHYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 87-68-3	2246	HEXACHLOROBUTADIENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 98-82-8	2994	ISOPROPYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 541-73-1	2967	M-DICHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 108-90-7	2989	MONOCHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 104-51-8	2422	N-BUTYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 103-65-1	2998	N-PROPYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 91-20-3	2248	NAPHTHALENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 95-49-8	2965	O-CHLOROTOLUENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 95-50-1	2968	O-DICHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 106-43-4	2966	P-CHLOROTOLUENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 106-46-7	2969	P-DICHLOROBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 99-87-6	2030	P-ISOPROPYLTOLUENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 100-42-5	2996	STYRENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 98-06-6	2426	TERT-BUTYLBENZENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 127-18-4	2987	TETRACHLOROETHYLENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 108-88-3	2991	TOLUENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 156-60-5	2979	TRANS-1,2-DICHLOROETHYLENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 10061-02-6	2224	TRANS-1,3-DICHLOROPROPENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 79-01-6	2984	TRICHLOROETHYLENE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-69-4	2218	TRICHLOROFLUOROMETHANE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 75-01-4	2976	VINYL CHLORIDE	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 108-38-3	2995	XYLENE, META	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 95-47-6	2997	XYLENE, ORTHO	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 106-42-3	2962	XYLENE, PARA	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
OC 1330-20-7	2955	XYLENES	RT	12/14/2001	08	001-01-61127-V502	< MDL .0005 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/14/2001	08	01-61127-1N502	< MRL .05 MG/L
OC 16655-82-6	2066	3-HYDROXYCARBOFURAN	RT	12/14/2001	08	B01120266-001-S3502	< MDL 0 MG/L
OC 116-06-3	2047	ALDICARB	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0005 MG/L
OC 1646-88-4	2044	ALDICARB SULFONE	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0005 MG/L
OC 1646-87-3	2043	ALDICARB SULFOXIDE	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0008 MG/L
OC 63-25-2	2021	CARBARYL	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0008 MG/L
OC 1563-66-2	2046	CARBOFURAN	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0009 MG/L
OC 16752-77-5	2022	METHOMYL	RT	12/14/2001	08	B01120266-001-S3502	< MDL .0009 MG/L
OC 23135-22-0	2036	OXAMYL (VYDATE)	RT	12/14/2001	08	B01120266-001-S3502	< MDL .002 MG/L
IOC 7440-36-0	1074	ANTIMONY	RT	12/20/2000	08	00-60932-1I	< MRL .003 MG/L
IOC 7440-38-2	1005	ARSENIC	RT	12/20/2000	08	00-60932-1I	< MRL .005 MG/L
IOC 7440-41-7	1075	BERYLLIUM	RT	12/20/2000	08	00-60932-1I	< MRL .001 MG/L
IOC 7440-02-0	1036	NICKEL	RT	12/20/2000	08	00-60932-1I	< MRL .01 MG/L
IOC	1038	NITRATE+NITRITE (AS N)	RT	12/20/2000	08	00-60932-1I	< MRL .05 MG/L
IOC 7440-28-0	1085	THALLIUM	RT	12/20/2000	08	00-60932-1I	< MRL .001 MG/L

Fac ID: DS001

Fac Name: DISTRIBUTION SYSTEM

Avl:P

Status: A Src: GW

Smp Pt ID: SP001

Status: A Description: SP FOR DS

Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC 7440-50-8	1022	COPPER	RT	11/14/2007	08	B07111112-001A	0.06 MG/L
IOC 7439-92-1	1030	LEAD	RT	11/14/2007	08	B07111112-001A	0.003 MG/L
IOC 7440-50-8	1022	COPPER	RT	11/14/2007	08	B07111112-002A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	11/14/2007	08	B07111112-002A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	11/14/2007	08	B07111112-003A	0.05 MG/L
IOC 7439-92-1	1030	LEAD	RT	11/14/2007	08	B07111112-003A	0.003 MG/L
IOC 7440-50-8	1022	COPPER	RT	11/14/2007	08	B07111112-004A	0.04 MG/L
IOC 7439-92-1	1030	LEAD	RT	11/14/2007	08	B07111112-004A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	11/14/2007	08	B07111112-005A	0.03 MG/L
IOC 7439-92-1	1030	LEAD	RT	11/14/2007	08	B07111112-005A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	12/27/2004	08	B04121520-001A	0.06 MG/L
IOC 7439-92-1	1030	LEAD	RT	12/27/2004	08	B04121520-001A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	12/27/2004	08	B04121520-002A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	12/27/2004	08	B04121520-002A	< MRL .001 MG/L



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Fac ID: DS001 Fac Name: DISTRIBUTION SYSTEM Avl:P Status: A Src:
Smp Pt ID: SP001 Status: A Description: SP FOR DS Src Typ FN

Analyte/CAS No	Code	Analyte Name	Type	Collection D	Lab	Sample Numbe	Result
IOC 7440-50-8	1022	COPPER	RT	12/27/2004	08	B04121520-003A	0.05 MG/L
IOC 7439-92-1	1030	LEAD	RT	12/27/2004	08	B04121520-003A	0.001 MG/L
IOC 7440-50-8	1022	COPPER	RT	12/27/2004	08	B04121520-004A	0.04 MG/L
IOC 7439-92-1	1030	LEAD	RT	12/27/2004	08	B04121520-004A	< MRL .001 MG/L
IOC 7440-50-8	1022	COPPER	RT	12/27/2004	08	B04121520-005A	< MRL .01 MG/L
IOC 7439-92-1	1030	LEAD	RT	12/27/2004	08	B04121520-005A	< MRL .001 MG/L
RA	4000	GROSS ALPHA, INCLDNG RA, EXCLDNG R	RT	12/20/2000	24	00-60932-2	< MRL 1 PIC/L

Lead & Copper Sample Summaries FROM 01/01/1992 TO 03/19/2008

Period Begin	Period End	Collection End	Type	Period Name	Code	Count	Measure	UoM
01/01/2005	12/31/2007	11/14/2007	3Y	3YR 05-07	PB90	5	.003	MG/L
01/01/2005	12/31/2007	11/14/2007	3Y	3YR 05-07	CU90	5	.055	MG/L
01/01/2002	12/31/2004	12/27/2004	3Y	3YR 02-04	PB90	5	.001	MG/L
01/01/2002	12/31/2004	12/27/2004	3Y	3YR 02-04	CU90	5	.055	MG/L
01/01/1999	12/31/2001	09/27/1999	3Y	3YR 99-01	PB90	5	.005	MG/L
01/01/1999	12/31/2001	09/27/1999	3Y	3YR 99-01	CU90	5	.08	MG/L
01/01/1996	12/31/1996		YR	1YR 96	PB90	0	.005	MG/L
01/01/1996	12/31/1996		YR	1YR 96	CU90	0	.08	MG/L
01/01/1995	12/31/1995		YR	1YR 95	PB90	0	.005	MG/L
01/01/1995	12/31/1995		YR	1YR 95	CU90	0	.08	MG/L
01/01/1994	06/30/1994		6M	1ST 6MO 94	PB90	0	.005	MG/L
01/01/1994	06/30/1994		6M	1ST 6MO 94	CU90	0	.09	MG/L
07/01/1993	12/31/1993		6M	2ND 6MO 93	PB90	0	.005	MG/L
07/01/1993	12/31/1993		6M	2ND 6MO 93	CU90	0	.21	MG/L

Violations & Enforcements

FROM 01/01/2000 TO 03/19/2008

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
01/14/2008	01/01/2005	12/31/2007	2008	3	52		MON	5000	LEAD & COPPER RULE
2008	53497	02/27/2008	SIF						ST PUBLIC NOTIF RECEIVED
2008	53496	01/19/2008	SIE						ST PUBLIC NOTIF REQUESTED
2008	53495	01/19/2008	SIA						ST VIOLATION/REMINDER NOTICE
02/05/2007	07/01/2005	06/30/2006	2007	3	71	MJ	RPT	7000	CONSUMER CONFIDENCE REPORTS RUL
2007	53494	03/05/2007	SOX						ST COMPLIANCE ACHIEVED
2007	53493	02/05/2007	SIA						ST VIOLATION/REMINDER NOTICE
01/14/2007	01/01/2006	12/31/2006	2007	3	03	MJ	MON	NITR	CDS NITRATE NITRITE
2007	53492	02/02/2007	SOX						ST COMPLIANCE ACHIEVED
2007	53489	01/14/2007	SIE						ST PUBLIC NOTIF REQUESTED
2007	53488	01/14/2007	SIA						ST VIOLATION/REMINDER NOTICE
01/14/2007	01/01/2006	12/31/2006	2007	3	03	MJ	MON	PHTH	CDS PHTHALATE DI
2007	53492	02/02/2007	SOX						ST COMPLIANCE ACHIEVED
2007	53491	01/14/2007	SIE						ST PUBLIC NOTIF REQUESTED
2007	53490	01/14/2007	SIA						ST VIOLATION/REMINDER NOTICE
12/28/2004	01/01/2002	12/31/2004	2005	3	52		MON	5000	LEAD & COPPER RULE
2005	53485	01/04/2005	SIE						ST PUBLIC NOTIF REQUESTED
2005	53484	01/04/2005	SIA						ST VIOLATION/REMINDER NOTICE
06/24/2004	06/01/2004	06/30/2004	2004	2	22		MCL	3100	COLIFORM, TOTAL (TCR)
2004	53482	12/31/2004	SOX						ST COMPLIANCE ACHIEVED



PWSID: MT0000296 Name: MUSSELSHELL WATER SYSTEM

(continued)

Viol Date	Comp Beg	Comp End	Fed F	Viol No	Type	Sev	Cate	Code	Name
2004	53483	06/30/2004	SIF		ST PUBLIC NOTIF RECEIVED				
2004	53479	06/25/2004	SIE		ST PUBLIC NOTIF REQUESTED				
2004	53478	06/25/2004	SIA		ST VIOLATION/REMINDER NOTICE				
2004	53481	06/25/2004	MPH		PHONE CALL TO SYSTEM				
2004	53480	06/25/2004	MHA		HEALTH ADVISORY				
12/13/2002	07/01/2001	06/30/2002	2003	3	71	MJ	RPT	7000	CONSUMER CONFIDENCE REPORTS RUL
2003	53476	07/30/2003	SOX		ST COMPLIANCE ACHIEVED				
2003	53474	12/23/2002	SIA		ST VIOLATION/REMINDER NOTICE				

MUSSELSHELL WATER SYSTEM PUBLIC WATER SYSTEM

PWS ID No. MT0000296

DRAFT SOURCE WATER DELINEATION & ASSESSMENT REPORT

PREPARED BY:

**MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
SOURCE WATER PROTECTION PROGRAM**

PREPARED FOR:

**Town of Musselshell Water Department
Lynn Retig
*Certified Operator***

**PO Box 195
Musselshell, Montana, 59059**

January 2005



EXECUTIVE SUMMARY

This Source Water Delineation and Assessment Report (SWDAR) was prepared under the requirements and guidance of the Federal Safe Drinking Water Act and the US Environmental Protection Agency, as well as a detailed Source Water Assessment Plan developed by a statewide citizen's advisory committee here in Montana. The Department of Environmental Quality (DEQ) is completing these assessments for all public water systems in Montana. The purpose is to provide information so that the public water system staff/operator, consumers, and community citizens can begin developing strategies to protect your source of drinking water. The information that is provided includes the identification of the area most critical to maintaining safe drinking water, i.e., the inventory region, an inventory of potential sources of contamination within this area, and an assessment of the relative threat that these potential sources pose to the water system.

Musselshell's drinking water is supplied by two wells at the south and east ends of town. In accordance with the Montana Source Water Protection Program criteria (1999), the aquifer (source water) is considered to have a low sensitivity to potential contaminant sources since the wells are completed in consolidated sandstone bedrock. Sensitivity is defined as the relative ease that contaminants can migrate to source water through the natural materials.

As part of this assessment, three types of source water protection management areas were mapped for the Musselshell public water system. They are: the control zone, the inventory region, and the recharge region. Potential sources of contamination were identified within each of these three regions and the results are as follows:

- No potential sources of contamination were identified within the control zone. The goal of management in the control zone is to avoid introducing contaminants directly into the water supply's well or immediate surrounding areas. The control zone is delineated as a 100-foot radius around the wellheads. All sources of potential contaminants should be excluded from the control zones.
- No significant potential contaminant sources were identified within the inventory region. Two underground storage tank locations are located in town, but their physical locations could not be determined.

The inventory region should be managed to prevent contaminants from reaching the well before natural processes reduce their concentrations. The inventory region includes the area upgradient of the well that is expected to supply groundwater recharge to the well over the next three years.

- Potential contaminant sources identified within the recharge region are limited to minor agricultural lands. Few point sources of potential contaminants were identified in this sparsely developed region; these are not inventoried.

The goal of management in the recharge region is to maintain and improve water quality over long periods of time or increased usage. Recharge to the aquifer is primarily from infiltration of precipitation and surface water into the Fort Union Formation in Hawk Creek drainage.

Low risk potential sources and potential sources located outside the inventory region, but within the recharge region may still pose a threat over time, but are not discussed in detail in this assessment. This provides a quick look at the existing potential sources of contamination that could, if improperly managed or released, impact the source water for Musselshell. The susceptibility analysis provides the community and the public water system with information on where the greatest risk occurs and where to focus resources for protection of this valuable drinking water resource.

The costs associated with contaminated drinking water are high, and prevention is preferable to treatment. Public awareness is a powerful tool for protecting drinking water. The information in this report will help increase public awareness about the relationship between land use activities and drinking water quality.

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FIGURES

[Figure 1](#) – Public Water Supply Location

[Figure 2](#) – Regional Geology of the Public Water Supply

[Figure 3](#) – Source Water Inventory Recharge Regions

APPENDICES

Appendix A - PWS Sanitary Survey, Well Logs and Hydrogeologic Assessment

Appendix B - Water Quality Analytical Results and Chemical Information

Appendix C - Underground Storage Tank (UST) Database Reports

Appendix D - Source Water Monitoring Waivers

Appendix E - Concurrence Letter

1.0 INTRODUCTION

Eric Sivers, a hydrogeologist with the Montana Department of Environmental Quality (DEQ) Source Water Protection Section, completed the Musselshell (PWS ID No. 00296) Source Water Delineation and Assessment Report (SWDAR).

The primary purpose of this source water delineation and assessment report is to provide information that helps Musselshell protect its drinking water source. The Montana Source Water Protection Program is intended to be a practical and cost-effective approach to protect public drinking water supplies from contamination. Two major components of the Montana Source Water Protection Program are *delineation* and *assessment*. Delineation is the process of mapping source water protection areas, which contribute water used for drinking. Assessment involves identifying locations or regions in source water protection areas where contaminants may be generated, stored, or transported, and then determining the relative potential for contamination of drinking water by these sources.

This Source Water Delineation and Assessment Report is intended to meet the technical requirements for the completion of the delineation and assessment for the Musselshell Public Water System (PWS) as required by the Montana Source Water Protection Program (DEQ, 1999) and the federal Safe Drinking Water Act (SDWA) Amendments of 1996 (P.L. 104-182).

2.0 BACKGROUND

Musselshell is located in Musselshell County in central Montana ([Figure 1](#)), approximately 20 miles east of Roundup. According to the Census Bureau, the population of Musselshell County in 2000 was 4,497, with 60 individuals residing in Musselshell.

2.1 PHYSICAL SETTING

2.1.1 Geography and Geology

Musselshell is located at the confluence of Hawk Creek and the Musselshell River, on the northeastern edge of the Bull Mountains. Musselshell lies at an elevation of approximately 3,000 feet above mean sea level.

Bedrock exposed in the Musselshell area is largely comprised of the Tongue River Member of the Fort Union Formation. The Fort Union Formation is a fluvial-deltaic deposit of Tertiary age, conformably overlying the Cretaceous Hell Creek Formation, which is exposed in outcrops north of the Town. The Tongue River Member is largely fine-grained sandstone, with lesser amounts of shale and coal, and minor beds of fresh-water limestone. The geology of the Musselshell area is shown on [Figure 2](#).

Musselshell is located in the Central Non-Glaciaded Plains groundwater region of North America (Heath, 1984). The community is in the Middle Musselshell Watershed, in the Lower Missouri River drainage of Montana.

2.1.2 Climate

Information on Musselshell's climate was provided by the National Oceanic and Atmospheric Administration (NOAA) climate station in Roundup, approximately 25 miles west of Musselshell. Climate in the area is semi-arid and typical of central Montana. Annual total precipitation is 12.3 inches. Rainfall occurs April through September with May and June

being the wettest months. The area receives an annual average of 24.3 inches of snow, mainly November to April. Climate data is provided by the Western Regional Climate Center, operated by the Desert Research Institute of Reno, Nevada. See Table 1 for additional climate information.

Table 1. Monthly Climate Summary: Roundup Climate Station (247214)

Period of Record: 06/04/1914 to 06/30/2004

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Ave. Max. Temp (F)	35.9	41.1	48.4	60.3	70.3	78.8	88.6	87.4	75.8	63.7	47.8	38.4	61.4
Ave. Min. Temp. (F)	11.7	15.7	21.8	31.8	41.0	49.3	55.1	52.6	43.0	33.7	22.8	14.9	32.8
Ave Tot. Precip. (in.)	0.41	0.34	0.56	1.05	2.08	2.54	1.42	1.07	1.09	0.90	0.41	0.43	12.30
Ave. Tot. Snowfall (in.)	5.7	3.7	4.3	1.3	0.2	0.0	0.0	0.0	0.1	1.1	3.0	4.8	24.3
Ave Snow Depth (in.)	1	1	0	0	0	0	0	0	0	0	0	1	0

2.2 THE PUBLIC WATER SUPPLY

2.2.1 Water Supply System

The Musselshell PWS serves approximately 80 people through 45 service connections, at a pumping rate of approximately 10,000 to 15,000 gallons per day. The Musselshell PWS is classified as a community public water system since it serves at least 25 of the same people every day. Information on the water system was obtained from correspondence in the DEQ Public Water Supply Section files including the most recent sanitary survey, completed in 2002 (attached as Appendix A). Groundwater is provided by two wells completed in consolidated sandstone bedrock. Water from the wells is pumped to a 1,000-gallon storage tank outside town.

2.2.2 Supply Well Information

The PWS draws from two wells. The Musselshell supply wells are located at the southeast end of town, and were completed in the mid-1970s. The wells are 340 and 360 feet deep, and each well is rated to yield 35 gallons per minute. Well summary information is provided in Table 2, and the well logs are attached as Appendix A.

Table 2. Supply Well Summary

DEQ Well Name/ Source Code	Well 1	Well 2
GWIC ID	22650	22649
DNRC Water Right	C012616-00	C012615
Well Location	46.5162 / -108.0895	46.5162 / -108.0896
Well Elevation	3,000	3,000
Date Completed	09/06/1974	03/28/1977
Total Depth (fbgs)	360.0	340.0
Well Completion: Casing	8" steel to 39'; 6" PVC to 360'	6" PVC to 340'
Well Completion: Screen	6" PVC with $\frac{1}{8}$ " slots from 220'-340'	6" PVC with $\frac{1}{8}$ " slots from 55'-80' and 200'-320'
Well Completion: Annular Seal	No information	No information
Static Water Level (fbgs)	28.0	35.0

2.2.3 Source Water

The Musselshell PWS wells are completed in consolidated sandstone bedrock of the Fort Union Formation. This aquifer is recharged by infiltration of precipitation and surface water in Hawk Creek drainage of the Bull Mountains south of Musselshell, as shown on [Figure 3](#).

Based on the results of a groundwater under the direct influence of surface water (GWUDISW) study completed in 2002, the source water is classified as groundwater.

According to the Source Water Protection Program (DEQ, 1999) the source water aquifer is considered to have low sensitivity to potential contamination.

2.3 WATER QUALITY

Each PWS is required to perform regular sampling of their water supply to detect contamination. The analytical parameters include: coliform bacteria and other pathogenic organisms, nitrates, metals, petroleum hydrocarbons, and other organic chemicals. The monitoring schedule depends on factors such as the size and source water of a PWS, the number of supplies (e.g. wells), and the population served. Monitoring programs are tailored to each system, following the general protocols defined by DEQ. Monitoring schedules are available at: <http://nris.state.mt.us/wis/swap/swapquery.asp>. The Musselshell PWS monitoring data from DEQ's database for the past five years was reviewed and is summarized in this section. Analytical results are compared to quality standards established by the US EPA. Maximum Contaminant Levels (MCLs) are enforceable standards that limit the highest level of a contaminant allowed in drinking water. National Secondary Drinking Water Standards (known as SMCLs) are non-enforceable guidelines regarding contaminants that may cause aesthetic (color, odor, taste) or cosmetic (staining, skin/tooth discoloration) issues.

2.3.1 Public Water Supply Monitoring Results

Health-based violations are issued when the amount of contaminant exceeds the MCL. A health-based violation for total coliform (TCR) was issued in June 2004. Coliform bacteria were detected repeatedly in May, June and July 2004. Compliance was achieved, and bacteria have not been detected in subsequent analyses.

Nitrate + nitrite has not been detected above the method detection level. Di(2-ethylhexyl)phthalate (DEHP) was detected at concentrations of 2.7 µg/L (microgram per liter, or parts per billion) in April 2002 and 5.8 µg/L (December 2001). These concentrations are below the MCL of 6 µg/L. The water quality results are attached as Appendix B.

Information regarding the organic chemical DEHP is included with Appendix B. This information was obtained from the Agency for Toxic Substances and Disease Registry (ATSDR). This agency is operated by the Centers For Disease Control and is a good source of information regarding chemicals or other substances of public concern.

2.3.2 Background Water Quality Monitoring Results

Background water quality sampling typically includes general water quality parameters: major dissolved ions (calcium, magnesium, sodium, potassium, iron, manganese, silica, bicarbonate, carbonate, chloride, sulfate, nitrate, fluoride and orthophosphate), trace elements, and metals. No background water quality data was identified for the Musselshell wells.

3.0 MANAGEMENT AREA DELINEATION

This report delineates three source water management areas. The goal of source water management is protection of the source water by 1) controlling activities in the control zone, 2) managing significant potential contaminant sources in the inventory region, and 3) ensuring that major land use activities or other significant activities in the recharge region pose minimal threat to the source water.

3.1 CONCEPTUAL MODEL

Musselshell is located in the Middle Musselshell River watershed (USGS Hydrologic Unit Code 10040202), which is located within Montana's Lower Missouri River watershed. As detailed above, Musselshell's drinking water source is interpreted to originate as rainfall and runoff in the Hawk Creek drainage of the Bull Mountains.

The wells are completed in consolidated sandstone bedrock, and according to the DEQ Source Water Protection Program criteria (DEQ, 1999), the wells are considered to have low source water sensitivity to contamination.

3.2 DELINEATION

Methods and criteria for delineating source water protection areas are specified in the Montana Source Water Protection Program (DEQ, 1999). The delineated management zones for the wells are shown on [Figure 3](#).

Control Zone – A 100-foot radius control zone is delineated for the wells. All sources of potential contaminants should be excluded in this region.

Inventory Region – The inventory region is the area that is expected to contribute to the water supply within no less than three years. All significant sources of potential contaminants are inventoried in this region. According to the DEQ's Source Water Protection Program criteria for a consolidated sandstone bedrock aquifer (DEQ, 1999), the inventory zone for the wellheads was delineated based on a 1,000-foot fixed radius around the wellheads, as shown in [Figure 3A](#).

Recharge Region – The recharge region for the Musselshell source water is essentially the Hawk Creek watershed, as shown on [Figure 3B](#). The inventory for the recharge region focuses on general land uses and large industrial facilities. The goal of management in the recharge region is to maintain and improve the long-term quality of groundwater in the aquifer.

4.0 INVENTORY

Significant potential contaminant sources in the source water management areas were inventoried to assess the susceptibility of Musselshell's source water to contamination, and to provide a foundation for source water protection planning. The inventory for Musselshell focuses on facilities or features that generate, use, store, or transport potential contaminants, as well as certain land uses in the inventory and recharge regions. It is important to remember that the sites and areas identified in this section are only potential sources of contamination to the drinking water. Contamination of drinking water sources is less likely when potential contaminants are properly used and managed.

4.1 INVENTORY METHOD

The inventory focus is slightly different in each of the delineated management areas. The inventory for the Musselshell focuses on all activities in the control zones; certain types of facilities and land

uses in the inventory region; and general land uses and large facilities in the Recharge Region. Information on facilities and land uses that are potential sources of regulated contaminants was obtained from a number of databases, described below. The process for completing the inventory included several steps, which are summarized as follows:

- Step 1: Land uses were identified from the U.S. Geological Survey's (USGS) Geographic Information Retrieval and Analysis System <<http://nris.state.mt.us/gis/datalist.html>>. Sewered and unsewered residential land uses were identified from boundaries of sewer coverage obtained from municipal wastewater utilities.
- Step 2: The US Environmental Protection Agency's (EPA) Envirofacts System <<http://www.epa.gov/enviro/>> was queried to identify EPA-regulated facilities located in the management areas. This system accesses facilities listed in the following databases: Resource Conservation and Recovery Information System (RCRIS), Biennial Reporting System (BRS), Toxic Release Inventory System (TRIS), and Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) and the Permit Compliance System (PCS - for Concentrated Animal Feeding Operations with MPDES permits). The available reports were browsed for facility information including the Handler/Facility Classification to be used in assessing whether a facility should be classified as a significant potential contaminant source.
- Step 3: Montana DEQ databases were queried to identify any of the following in the management areas:
 - Underground storage tanks (USTs) <<http://www.deq.state.mt.us/UST/USTDownloads.asp>>
 - Hazardous waste contaminated sites, above ground storage tanks (ASTs), landfills, and abandoned and active mines, including gravel pits <<http://nris.state.mt.us/gis/bundler/>>

Any information on past releases and present compliance status was noted.

- Step 4: Major road and rail transportation routes were identified throughout the inventory region: <<http://nris.state.mt.us/gis/gisdata/lib/gisDataList.aspx>>.

Potential contaminant sources are considered significant if they fall into one or more of the following categories:

- | | |
|---|---|
| 1. Large quantity hazardous waste generators. | 7. Cultivated cropland exceeding 20% of the inventory region. |
| 2. Landfills. | 8. Animal feeding operations. |
| 3. Underground storage tanks. | 9. Wastewater treatment facilities, sludge handling sites, or land application areas. |
| 4. Known groundwater contamination (including open or closed hazardous waste sites, state or federal Superfund sites, and leaking UST sites). | 10. Septic systems. |
| 5. Underground injection well. | 11. Sewer mains. |
| 6. Major roads or rail transportation routes. | 12. Storm sewer outflows. |
| | 13. Abandoned or active mines |

4.2 INVENTORY RESULTS

4.2.1 Control Zone Inventory Results

The 100-foot control zones around the wellheads include the wellheads. No potential sources of contamination were identified within the control zone. The PWS should confirm this and

be vigilant to ensure that potential sources of contamination are excluded from the control zone and that positive drainage away from the wellheads is maintained.

4.2.2 Inventory Region Results

The inventory results for Musselshell's source water are summarized in Table 2, and are shown on [Figure 3](#).

Two UST facilities plotted within the inventory region based on available information, but it could not be determined whether the physical locations of these two tanks were actually within the inventory region. The database report of UST facilities in the Musselshell area is attached as Appendix C for the operator's review and general reference.

The land cover types identified within the inventory region are: mixed urban land, evergreen forest and grassland. The inventory region contains areas of low, medium and high septic system density. The high and medium density areas are within the town, and are located downgradient of the supply wells.

4.2.3 Recharge Region Inventory Results

According to the 1992 National Land Cover dataset, the primary land cover in the recharge region is grassland and evergreen forest, with some agricultural (crop-fallow small grain) land use along Hawk Creek. Septic system density within the watershed/recharge region is low. The septic system density is not considered a hazard to the PWS drinking water.

4.3 INVENTORY UPDATE

To make this SWDAR a useful document for the years to come, the certified water system operator should review the inventory every year. Changes in land uses or potential contaminant sources should be noted and additions made as appropriate. The complete inventory should be submitted to DEQ every five years to ensure the source water delineation and assessment remains current.

5.0 SUSCEPTIBILITY ASSESSMENT

5.1 INTRODUCTION TO SUSCEPTIBILITY

Susceptibility is the degree of likelihood for a public water supply to be impacted by contaminant sources at concentrations that would pose a concern. Susceptibility is assessed to prioritize potential pollutant sources for the Musselshell PWS managers and operators.

5.2 DETERMINATION OF SUSCEPTIBILITY

According to the DEQ Source Water Protection Program (DEQ, 1999) Susceptibility is determined by considering the *hazard* rating for each potential contaminant source relative to any contaminant *barriers*. Proximity or density of significant potential contaminant sources and nature of contaminants determines hazard.

Barriers to contamination are anything that decreases the likelihood of contaminants reaching a spring or well. Barriers may be engineered structures, management actions, or natural conditions. Examples of engineered barriers include spill catchment structures and leak detection for underground storage tanks. Emergency planning and best management practices (BMPs) are considered management barriers. Thick clay-rich soils, a deep water table or a thick unsaturated zone above the well intake are examples of natural barriers. Where credited, barriers are noted in Table 2.

5.3 RESULTS OF SUSCEPTIBILITY ASSESSMENT

A summary of the susceptibility assessment for the Musselshell wells is provided in Table 2. This table only includes the potential contaminant sources (identified in the inventory) that were determined to present a significant potential risk to the drinking water supply. Therefore, this list is not exhaustive, and it is highly recommended that the PWS operator and community members familiar with the nature of businesses and land use in the area enhance the inventory through further research and local input.

Table 2. Susceptibility Assessment of Significant Potential Contaminant Sources

Potential Contaminant Source	Potential Contaminants	Hazard	Hazard	Barriers	Susceptibility	Management Recommendations
<i>Inventory Region</i>						
Septic Systems	Pathogens, nitrate (NO ₃)	System failure could result in discharge of untreated effluent	Moderate	Downgradient from wells; depth to well intakes	Very Low	Encourage septic system owners to periodically inspect their septic systems.
USTs and LUSTs	VOCs, petroleum hydrocarbons	Release of petroleum hydrocarbons to soil and groundwater	Moderate	1998-compliant upgrades; site cleanup; groundwater monitoring	Low	Review permit status; ensure proper operation and maintenance, emergency planning, training of local emergency response personnel, spill prevention, and BMPs. Properly abandon and remove tanks if out-of-service. Encourage soil testing to evaluate potential impact from historic spills or leaks.
Agricultural Land: Cropland and grazing lands	NO ₃ and SOC from fertilizer, pesticides and herbicides. Pathogens from pastures.	Contaminants leaching into groundwater	Low	Distance from wells and gallery	Low	Encourage BMPs.
Transportation Routes: Roads and Railroads	Pesticides, fertilizers, VOCs, SOC, other	Spills, routine spraying, storm water runoff, infiltration into groundwater	Low	Emergency spill response	Low	Encourage and support emergency planning, training of local emergency response personnel, and cooperation with MDOT to reduce herbicide use.
Class V Injection Wells	VOCs, SOC, metals	Infiltration into groundwater	Unknown at this time	None	Unknown at this time	Work with EPA to identify locations and appropriate response.
<i>Recharge Region</i>						
Agricultural Crop Land	NO ₃ and SOC from fertilizer, pesticides and herbicides. Pathogens (if grazing occurs)	Contaminants leaching into groundwater	Not assessed	None	Not assessed outside inventory region	Encourage use of BMPs in the recharge region.

6.0 LIMITATIONS

This Source Water Delineation and Assessment Report is intended to meet the technical requirements for delineation and assessment of the Musselshell Public Water System (PWS) as required by the Montana Source Water Protection Program (DEQ, 1999) and the federal Safe Drinking Water Act (SDWA) Amendments of 1996 (P.L. 104-182). The following limitations should be noted:

- This report was prepared to assess the susceptibility of the Musselshell PWS to significant potential contaminant sources, and is based on published information and correspondence within DEQ files. The terms “drinking water supply” or “drinking water source” refer specifically to the source of the Musselshell public water supply and not any other public or private water supply. Also, not every potential or existing source of groundwater contamination in the Musselshell area has been identified. Only potential sources of contamination in areas that contribute water to its drinking water source are considered
- Delineation of the source water protection areas for the Musselshell wells is based on map and aerial photograph interpretation. In the absence of extensive field investigations to accurately characterize aquifer characteristics, the assumptions are necessarily conservative. The use of such conservative assumptions was to ensure that the inventory zone reflects the actual area where contamination to the system may occur.
- The potential contaminant sources described in the inventory are identified from readily available information. Consequently, unregulated activities or unreported contaminant releases may have been overlooked. The use of multiple sources of information increases the likelihood that the major threats to the source water for Musselshell’s public water supply have been identified. The inventory is not exhaustive. If a type of potential contaminant source is not identified in the inventory or susceptibility assessment of this report, it does not necessarily follow that the potential for contamination does not exist, or there is not a threat. It is highly recommended that the PWS and community enhance or refine the identification of potential contamination sources through further research and local input.

7.0 CONCLUSIONS

This Source Water Delineation and Assessment Report (SWDAR) was prepared under the requirements and guidance of the Federal Safe Drinking Water Act and the US Environmental Protection Agency, as well as a detailed Source Water Assessment Plan developed by a statewide citizen's advisory committee here in Montana. The Department of Environmental Quality (DEQ) is completing these assessments for all public water systems in Montana. The purpose is to provide information so that the public water system staff/operator, consumers, and community citizens can begin developing strategies to protect your source of drinking water. The information that is provided includes the identification of the area most critical to maintaining safe drinking water, i.e., the inventory region, an inventory of potential sources of contamination within this area, and an assessment of the relative threat that these potential sources pose to the water system.

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The inventory region should be managed to prevent contaminants from reaching the well before natural processes reduce their concentrations. The inventory region includes the area upgradient of the well that is expected to supply groundwater recharge to the well over the next three years.

- Potential contaminant sources identified within the recharge region are limited to minor agricultural lands. Few point sources of potential contaminants were identified in this sparsely developed region.

The goal of management in the recharge region is to maintain and improve water quality over long periods of time or increased usage. Recharge to the aquifer is primarily from infiltration of precipitation and surface water into the Fort Union Formation in Hawk Creek drainage.

Low risk potential sources and potential sources located outside the inventory region, but within the recharge region may still pose a threat over time, but are not discussed in detail in this assessment. This provides a quick look at the existing potential sources of contamination that could, if improperly managed or released, impact the source water for Musselshell. The susceptibility analysis provides the community and the public water system with information on where the greatest risk occurs and where to focus resources for protection of this valuable drinking water resource.

The costs associated with contaminated drinking water are high, and prevention is preferable to treatment. Public awareness is a powerful tool for protecting drinking water. The information in this

report will help increase public awareness about the relationship between land use activities and drinking water quality.

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9.0 GLOSSARY

Acute Health Effect. A negative health effect in which symptoms develop rapidly.

Alkalinity. The capacity of water to neutralize acids.

Aquifer. A water-bearing layer of rock or sediment that will yield water in usable quantity to a well or spring.

Barrier. A physical feature or management plan that reduces the likelihood of contamination of a water source from a potential contaminant source

Best Management Practices (BMPs). Methods for various activities that have been determined to be the most effective, practical means of preventing or reducing non-point source pollution.

Biennial Reporting System (BRS). An EPA database that contains information on hazardous waste sites. The data can be accessed through the EPA Envirofacts website.

Chronic Health Effect. A negative health effect in which symptoms develop over an extended period of time.

Class V Injection Well. Any pit or conduit into the subsurface for disposal of waste waters, including drywells, storm drains and floor drains. The receiving unit for an injection well typically represents the aquifer, or water-bearing interval.

Coliform Bacteria. A general type of bacteria found in the intestinal tracts of animals and humans, and also in soils, vegetation and water. Their presence in water is used as an indicator of pollution and possible contamination by pathogens.

Comprehensive Environmental Cleanup and Responsibility Act (CECRA). Passed in 1989 by the Montana State Legislature, CECRA provides the mechanism and responsibility to clean up hazardous waste sites in Montana.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Enacted in 1980. CERCLA provides a Federal "Superfund" to clean up uncontrolled or abandoned hazardous-waste sites as well as accidents, spills, and other emergency releases of pollutants and contaminants into the environment. Through the Act, EPA was given power to seek out those parties responsible for any release and assure their cooperation in the cleanup.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). A database that provides information about specific sites through the EPA Envirofacts website.

Confined Animal Feeding Operation (CAFO). Any agricultural operation that feeds animals within specific areas, not on rangeland. Certain CAFOs require permits for operation.

Confined Aquifer. A fully saturated aquifer overlain by a confining unit such as a clay layer. The static water level in a well in a confined aquifer is at an elevation that is equal to or higher than the base of the overlying confining unit.

Confining Unit. A geologic formation present above a confined aquifer that inhibits the flow of water and maintains the pressure of the groundwater in the aquifer. The physical properties of a confining unit may range from a five-foot thick clay layer to shale that is hundreds of feet thick.

Delineation. The process of determining and mapping source water protection areas.

Glacial. Of or relating to the presence and activities of ice or glaciers. Also, pertaining to distinctive features and materials produced by or derived from glaciers.

Geographic Information Systems (GIS). A computerized database management and mapping system that allows for analysis and presentation of geographic data.

Hardness. Characteristic of water caused by presence of various calcium and magnesium salts. Hard water may interfere with some industrial processes and prevent soap from lathering. Hardness is often expressed in units of milligrams per liter (mg/L) or parts per million (ppm) of CaCO₃ (calcium carbonate). Waters with a total hardness in

the range of 0 to 60 mg/L are termed soft; from 60 to 120 mg/L moderately hard; from 120 to 180 mg/L hard; and above 180 mg/L very hard.

Hazard. A relative measure of the potential of a contaminant from a facility or associated with a land use to reach the water source for a public water supply. The location, quantity and toxicity of significant potential contaminant sources determine hazard.

Hydraulic Conductivity. A constant number or coefficient of proportionality that describes the rate water can move through an aquifer material.

Hydrology. The study of water and how it flows in the ground and on the surface.

Hydrogeology. The study of geologic formations and how they effect groundwater flow systems.

Inventory Region. A source water management area for groundwater systems that encompasses the area expected to contribute water to a public water supply within a fixed distance or a specified three year groundwater travel time.

Lacustrine. Pertaining to, produced by, or formed in a lake or lakes.

Large CapaTown Septic System. Defined by Underground Injection Control regulations as an on-site septic system serving 20 or more persons.

Leaking Underground Storage Tank (LUST). A release from a UST and/or associated piping into the subsurface.

Maximum Contaminant Level (MCL). Maximum concentration of a substance in water that is permitted to be delivered to the users of a public water supply. Set by EPA under authority of the Safe Drinking Water Act to establish concentrations of contaminants in drinking water that are protective of human health.

Montana Bureau of Mines and Geology – Groundwater Information Center (MBMG/GWIC). The database of information on all wells drilled in Montana, including stratigraphic data and well construction data, when available.

Montana Pollutant Discharge Elimination System (MPDES). A permitting system that utilizes a database to track entities that discharge wastewater of any type into waters of the State of Montana.

National Pollutant Discharge Elimination System (NPDES). A national permitting system that utilizes a database to track entities that discharge wastewater into waters of the United States.

Nitrate. An important plant nutrient and type of inorganic fertilizer that can be a potential contaminant in water at high concentrations. In water the major sources of nitrates are wastewater treatment effluent, septic tanks, feed lots and fertilizers.

Nonpoint Source Pollution. Pollution sources that are diffuse and do not have a single point of origin or are not introduced into a receiving stream from a specific outlet. Examples of nonpoint- source pollution include agriculture, forestry, and run-off from Town streets. Nonpoint sources of pollution, such as the use of herbicides, can concentrate low levels of these chemicals into surface and/or groundwaters at increased levels that may exceed MCLs.

Pathogens. A microorganism typically found in the intestinal tracts of mammals, capable of producing disease.

Phase II (and IIB) Rules. EPA updated or created legal limits on 38 contaminants. The rules became effective July 30, 1992 and January 1, 1993. Some of these contaminants are frequently-applied agricultural chemicals such as nitrate and others are industrial solvents.

Phase V Rule. EPA set standards for 23 contaminants in addition to those addressed by the Phase II Rules. The Phase V Rule became effective January 17, 1994. Some of these contaminants include inorganic chemicals such as cyanide and other Phase V contaminants are pesticides that enter water supplies through run-off from fields where farmers have applied them or by leaching through the soil into groundwater. Six are probable cancer-causing agents. Others can cause liver and kidney damage, or problems of the nervous system and brain.

Point Source. A stationary location or a fixed facility from which pollutants are discharged. This includes any single identifiable source of pollution, including but not limited to any pipe, ditch, channel, tunnel, conduit, well,

discrete fracture, container, rolling stock (tanker truck), or vessel or other floating craft, from which pollutants are or may be discharged.

Pollutant. Generally, any substance introduced into the environment that adversely affects the usefulness of a resource (e.g. groundwater used for drinking water).

Permit Compliance System (PCS). An EPA database that provides information on the status of required permits for specific activities for specific facilities. The data can be accessed through the EPA Envirofacts website.

Public Water System (PWS). A system that provides water for human consumption through at least 15 service connections or regularly serves 25 individuals.

Pumping Water Level. Water level elevation in a well when the pump is operating.

Recharge Region. An area in which water is absorbed that eventually reaches the zone of saturation in one or more aquifers. As a source water management region, the term generally describes the entire area that could contribute water to an aquifer used by a public water supply. Includes areas that could contribute water over long time periods or under different water usage patterns.

Resource Conservation and Recovery Act (RCRA). Enacted by Congress in 1976 to regulate hazardous materials 'from the cradle to the grave.' RCRA's primary goals are to protect human health and the environment from the potential hazards of waste disposal, to conserve energy and natural resources, to reduce the amount of waste generated, and to ensure that wastes are managed in an environmentally sound manner.

Resource Conservation and Recovery Information System (RCRIS). A database that provides information about specific RCRA sites through the EPA Envirofacts website.

Secondary Maximum Contaminant Levels (SMCL). The maximum concentration of a substance in water that is recommended to be delivered to users of a public water supply based on aesthetic qualities. SMCLs are non-enforceable guidelines for public water supplies, set by EPA under authority of the Safe Drinking Water Act. Compounds with SMCLs may occur naturally in certain areas, limiting the ability of the public water supply to treat for them.

Section Seven Tracking System (SSTS). SSTS is an automated system EPA uses to track pesticide producing establishments and the amount of pesticides they produce.

Sensitivity. The relative ease with which contaminants can migrate to source water through the natural materials

Source Water. Any surface water, spring, or groundwater source that provides water to a public water supply.

Source Water Delineation and Assessment Report (SWDAR). A report for a public water supply that delineates source water protection areas, provides an inventory of potential contaminant sources within the delineated areas, and evaluates the relative susceptibility of the source water to contamination from the potential contaminant sources under "worst-case" conditions.

Source Water Protection Areas. For surface water sources, the land and surface drainage network that contributes water to a stream or reservoir used by a public water supply. For groundwater sources, the area within a fixed radius or three-year travel time from a well, and the land area where the aquifer is recharged.

Spill Response Region. A source water management area for surface water systems that encompasses the area expected to contribute water to a public water supply within a fixed distance or a specified four-hour water travel time in a stream or river.

Standard Industrial Classification (SIC) Code. A method of grouping industries with similar products or services and assigning codes to these groups.

Static Water Level (SWL). Water level elevation in a well when the pump is not operating.

Susceptibility (of a PWS). The relative potential for a PWS to draw water contaminated at concentrations that would pose concern. Susceptibility is evaluated at the point immediately preceding treatment or, if no treatment is provided, at the entry point to the distribution system.

Syncline. A geologic structure consisting of a down-arched fold with an axial plan dividing it in half.

Synthetic Organic Compounds (SOC). Man-made organic chemical compounds (e.g. herbicides and pesticides).

Total Dissolved Solids (TDS). The dissolved solids collected after a sample of a known volume of water is passed through a very fine mesh filter.

Total Maximum Daily Load (TMDL). The total pollutant load to a surface water body from point, nonpoint, and natural sources. The TMDL program was established by section 303(d) of the Clean Water Act to help states implement water quality standards.

ToxiTown. The quality or degree of being poisonous or harmful to plants, animals, or humans.

ToxiTown Characteristic Leachate Procedure (TCLP). A test designed to determine whether a waste is hazardous or requires treatment to become less hazardous.

Toxic Release Inventory System (TRIS). An EPA database that compiles information about permitted industrial releases of chemicals to air and water. Information about specific sites can be obtained through the EPA Envirofacts website.

Transmissivity. The ability of an aquifer to transmit water. The transmissivity is determined by multiplying the hydraulic conductivity by the aquifer thickness.

Turbidity. The cloudy appearance of water caused by the presence of suspended matter. Turbidity is measured in nephelometric turbidity units (NTUs).

Unconfined Aquifer. An aquifer containing water that is not under pressure. The water table is the top surface of an unconfined aquifer.

Underground Storage Tanks (UST). A tank located at least partially underground and designed to hold gasoline or other petroleum products or chemicals, and the associated plumbing system.

Volatile Organic Compounds (VOC). Chemicals such as petroleum hydrocarbons and solvents or other organic chemicals that evaporate readily to the atmosphere.

Watershed. The region drained by, or contributing water to, a stream, lake, or other water body of water.

FIGURES

APPENDIX A

PWS SANITARY SURVEY, GROUNDWATER ASSESSMENT, AND WELL LOGS

Montana Bureau of Mines and Geology
Ground-Water Information Center Site Report
TOWN OF MUSSELSHELL

[Plot this site on a topographic map](#)

Location Information

GWIC Id: 132785
 Location (TRS): 31N 27E 30 DAD
 County (MT): PHILLIPS
 DNRC Water Right: G030254-00
 PWS Id: 00203003
 Block:
 Lot:
 Addition:

Source of Data: LOG
 Latitude (dd): 48.4129
 Longitude (dd): -108.2613
 Geomethod: TRS-TWN
 Datum: NAD27
 Altitude (feet):
 Certificate of Survey:
 Type of Site: WELL

Well Construction and Performance Data

Total Depth (ft): 105.00
 Static Water Level (ft): 19.50
 Pumping Water Level (ft): 23.90
 Yield (gpm): 150.00
 Test Type: AIR
 Test Duration: 1.50
 Drill Stem Setting (ft):
 Recovery Water Level (ft):
 Recovery Time (hrs):

How Drilled: FORWARD ROTARY
 Driller's Name: HICKEL & TOOKE
 Driller License: WWC196
 Completion Date (m/d/y): 10/17/1985
 Special Conditions:
 Is Well Flowing?:
 Shut-In Pressure:
 Geology/Aquifer: Not Reported
 Well/Water Use: PUBLIC WATER SUPPLY

Well Notes:

Hole Diameter Information

From	To	Diameter
0.0	105.0	12.0

Annular Seal Information

From	To	Description
6.0	8.0	K PACK NEOPREM
10.0	20.0	CEMENT & WATER

Lithology Information

From	To	Description
0.0	2.0	SURFACE
2.0	7.0	CLAY
7.0	11.0	SAND
11.0	15.0	CLAY
15.0	16.0	GRAVEL
16.0	19.0	SAND
19.0	21.0	GRAVEL
21.0	36.0	CLAY
36.0	38.0	GRAVEL
38.0	43.0	SANDY CLAY
43.0	54.0	SAND AND FINE GRAVEL
54.0	82.0	GRAVEL
82.0	94.0	SAND AND CLAY
94.0	102.0	GRAVEL
102.0	103.0	SAND
103.0	105.0	SHALE

Casing Information¹

From	To	Dia	Wall Thickness	Pressure Rating	Joint Type
-1.5	105.0	8.0			STEEL

Completion Information¹

From	To	Dia	# of Openings	Size of Openings	Description
61.0	65.0	6.0			BLACK
65.0	82.0	6.0			100 SLOT
82.0	95.0	6.0			BLACK
95.0	102.0	6.0			80 SLOT

¹ - All diameters reported are **inside** diameter of the casing.

**Montana Bureau of Mines and Geology
Ground-Water Information Center Site Report
TOWN OF MUSSELSHELL**

[Plot this site on a topographic map](#)

Location Information

GWIC Id: 42647
Location (TRS): 31N 27E 30 ADAD
County (MT): PHILLIPS
DNRC Water Right: W030255-00
PWS Id: 00203002
Block:
Lot:
Addition:

Source of Data: LOG
Latitude (dd): 48.4179
Longitude (dd): -108.2592
Geomethod: MAP
Datum: NAD27
Altitude (feet): 2311.00
Certificate of Survey:
Type of Site: WELL

Well Construction and Performance Data

Total Depth (ft): 30.00
Static Water Level (ft): 25.00
Pumping Water Level (ft): 20.00
Yield (gpm): 250.00
Test Type: PUMP
Test Duration: 1.00
Drill Stem Setting (ft):
Recovery Water Level (ft):
Recovery Time (hrs):

How Drilled: HAND DUG
Driller's Name:
Driller License:
Completion Date (m/d/y): 1/1/1916
Special Conditions:
Is Well Flowing?:
Shut-In Pressure:
Geology/Aquifer: 110ALVM
Well/Water Use: PUBLIC WATER SUPPLY

Well Notes:

Hole Diameter Information

From	To	Diameter
0.0	30.0	16.0

Casing Information¹

From	To	Dia	Wall Thickness	Pressure Rating	Joint Type
0.0	20.0	16.0			16 X 16 FT SQ
20.0	30.0	120.0			10 X 10 FT SQ

Annular Seal Information

No Seal Records currently in GWIC.

Completion Information¹

From	To	Dia	# of Openings	Size of Openings	Description
20.0	30.0	10.0			STEEL GRATING AND CONCRETE

Lithology Information

From	To	Description
0.0	25.0	SANDY LOAM
25.0	30.0	GRAVEL

¹ - All diameters reported are **inside** diameter of the casing.

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted. Note: non-reported casing, completion, and lithologic records may exist in paper files at GWIC.

APPENDIX B

WATER QUALITY ANALYTICAL REPORTS AND CHEMICAL INFORMATION

APPENDIX C

UNDERGROUND STORAGE TANK (UST) DATABASE REPORT

Underground Storage Tank Facility Summary Report
Data last retrieved from DEQ on 1/2/2005 12:03:26 AM
Facility ID: 33-07498
Musselshell Garage

I. Ownership of Tank(s)

System ID: 5910 **State Owner ID:** 5910
Name: Musselshell Garage
Address: Main St Box 195 Musselshell, MT 59059
Phone: (406) 947-2301 **Fax:**
Contact: **Comments:**

Type of Notification: Closure

System ID: 3307498 **State Facility ID:** 33-07498
Date Received: 5/8/1986 **Re-Notification:**
Facility Operator:

II. Facility (Location of Tanks)

Name: Musselshell Garage
Location: Main St Box 195 Musselshell, MT 59059, Musselshell County
Latitude: 46.5194 **Longitude:** -108.0913
Phone: **Comments:**

Facility Compliance

Operating Permit Renewal Date:
Last Operating Permit Issued:

III. Type of Owner

Private

IV. Indian Lands

Tanks are not located on land with an Indian Reservation or on other trust lands
Tanks are not owned by a native American nation or tribe

V. Type of Facility

Type of Facility: Automotive repair, services, and parking
Comments:

VI. Contact Persons in Charge of Tanks

Name: Lavern Carpenter **Address:** Address Unknown ZipCode Unknown, XX 99999
Phone: (406) 947-2301 **Fax:**
Contact Type:

VII. Financial Responsibility

Facility does not meet financial responsibility requirements.

Financial Responsibility methods:

Comments:

VIII. Certification

Name: John Lavern L. Carpenter **Title:** **Date:** 4/1/1986

IX, X, and XI. Underground Storage Tanks

Tank ID (Click Link for Details)						
Status	Installed	Substance	Capacity	Date Closed	Closure Status	
1	Permanently Out of Use	4/1/1966	Gasoline	500	5/15/1979	Tank removed from ground
2	Permanently Out of Use	4/1/1966	Gasoline	500	5/15/1979	Tank removed from ground

Underground Storage Tank Facility Summary Report
 Data last retrieved from DEQ on 1/2/2005 12:03:26 AM
Facility ID: 33-02474
Roen Ranch

I. Ownership of Tank(s)

System ID: 6816 **State Owner ID:** 6816
Name: Razor Creek Farms Inc.
Address: 6345 Church Rd Shepherd, MT 59079
Phone: (406) 737-5535 **Fax:**
Contact: **Comments:**

Type of Notification: Closure

System ID: 3302474 **State Facility ID:** 33-02474
Date Received: 2/28/1990 **Re-Notification:**
Facility Operator:

II. Facility (Location of Tanks)

Name: Roen Ranch
Location: Address Unknown Musselshell, MT 59059, Musselshell County
Latitude: 46.5186 **Longitude:** -108.0906
Phone: **Comments:**

Facility Compliance

Operating Permit Renewal Date:
Last Operating Permit Issued:

III. Type of Owner

Private

IV. Indian Lands

Tanks are not located on land with an Indian Reservation or on other trust lands
 Tanks are not owned by a native American nation or tribe

V. Type of Facility

Type of Facility: Agricultural production- livestock
Comments:

VI. Contact Persons in Charge of Tanks

Name: Cliff Roen **Address:** Address Unknown ZipCode Unknown, XX 99999
Phone: (406) 967-2211 **Fax:**
Contact Type: Other: RANCH MANAGER

VII. Financial Responsibility

Facility does not meet financial responsibility requirements.

Financial Responsibility methods:

Comments:

VIII. Certification

Name: Elmer Quanbeck

Title: President

Date: 2/13/1990

IX, X, and XI. Underground Storage Tanks						
Tank ID (Click Link for Details)						
Status	Installed	Substance	Capacity	Date Closed	Closure Status	
1	Permanently Out of Use	2/14/1980	Gasoline	1000	3/10/1990	Tank removed from ground

APPENDIX D

SOURCE WATER MONITORING WAIVERS

MONITORING WAIVERS

Waiver Recommendation

The Musselshell PWS has a waiver for Phase 2 inorganics. Under the waiver, the PWS samples for these parameters every nine years rather than every three years. The PWS was grandfathered under the radionuclide rule and is only required to sample once every nine years for these parameters.

Before a susceptibility or use waiver is requested, the PWS Operators are encouraged to carefully review the Monitoring Waiver Requirements, described below. If after reviewing this section it is determined that an additional waivers are feasible, the PWS should submit a letter to DEQ requesting the specific monitoring waivers. The PWS must be in compliance with monitoring requirements to be considered. If requested by DEQ, the PWS may also need to provide additional information regarding chemical use in the area within the Inventory Region. The table below shows how identified potential contaminant sources affect the eligibility for monitoring waivers.

Susceptibility Assessment as it relates to Waiver Eligibility

Source	Contaminant	Susceptibility	Waiver Eligibility
Transportation Corridors	VOCs, SOCs, petroleum products and other chemicals		Chemical use in right-of-way may preclude waivers for some chemicals. PWS should confirm chemical use history along the right-of-way. Waivers might be rescinded if a spill occurred.
Sewer System/ Wastewater Treatment	Nitrates, pathogens		Waivers are not available for pathogens and nitrate.
Agricultural Cropped Areas	Nitrates and SOCs		Chemical use may preclude waivers for some chemicals. The PWS should confirm chemical use/storage history by land parcel.

Monitoring Waiver Requirements

The 1986 Amendments to the Safe Drinking Water Act require that community and non-community PWSs sample drinking water sources for the presence of volatile organic chemicals (VOCs) and synthetic organic chemicals (SOCs). The US EPA has authorized states to issue monitoring waivers for organic chemicals to systems that have completed an approved waiver application and review process. All PWSs in the State of Montana are eligible for consideration of monitoring waivers for several organic chemicals. The chemicals diquat, endothall, glyphosate, dioxins, ethylene dibromide (EDB), dibromochloropropane (DBCP), and polychlorinated biphenyls (PCBs) are excluded from monitoring requirements by statewide waivers.

Use Waivers

A Use Waiver can be allowed if through a vulnerability assessment, it is determined that specific organic chemicals were not used, manufactured, or stored in the area of a water source (or source area). If certain organic chemicals have been used, or if the use is unknown, the system would be determined to be vulnerable to organic chemical contamination and ineligible for a Use Waiver for those particular contaminants.

Susceptibility Waivers

If a Use Waiver is not granted, a system may still be eligible for a Susceptibility Waiver, if through a vulnerability assessment it is demonstrated that the water source would not be susceptible to contamination. The purpose of the vulnerability assessment procedures outlined in this section is to determine which of the organic chemical

contaminants are in the area of investigation. The vulnerability assessment of a surface water source must consider the watershed area above the source, or a minimum fixed radius of 1.5 miles upgradient of the surface water intake. PWSs developed in unconfined aquifers should use a minimum fixed radius of one mile as an area of investigation for the use of organic chemicals. Vulnerability assessment of spring water sources should use a minimum fixed radius of one mile as an area of investigation for the use of organic chemicals. Surface water and shallow groundwater sources under the direct influence of surface water (GWUDISW) should assess the watershed area above the source, or a minimum fixed radius of one and one-half miles upgradient.

Given the wide range of landforms, land uses, and the diversity of groundwater and surface water sources across the state, additional information is often required during the review of a waiver application. Additional information may include well logs, pump test data, water quality monitoring data from surrounding public water systems, delineation of zones of influence and contribution to a well; time-of-travel or attenuation studies; vulnerability mapping; and the use of computerized groundwater flow and transport models. DEQ's PWS Section and DEQ's Source Water Protection Program will conduct review of an organic chemical monitoring waiver application. Other state agencies may be asked for assistance.

Susceptibility Waiver for Unconfined Aquifers

Unconfined aquifers are the most common source of usable groundwater. Unconfined aquifers are not contained within impervious geologic strata. As a result, the upper groundwater surface, or water table, in an unconfined aquifer is not under the pressure that produces hydrostatic head common to confined aquifers.

Unconfined aquifers are usually locally recharged from surface water or precipitation. In general, groundwater flow gradients in unconfined aquifers reflect surface topography, and the residence time of water in the aquifer is generally shorter than for water in confined aquifers. Similar water chemistry often exists between unconfined groundwater and area surface water, and physical parameters and dissolved constituents can be an indicator of the hydraulic connection between groundwater and surface water. Consequently, unconfined aquifers can be susceptible to contamination by organic chemicals migrating from the ground surface to groundwater.

Properly assessing a susceptibility waiver application for an unconfined source aquifer requires: site-specific information pertaining to the location and construction of the source development, monitoring history of the source, geologic characteristics of the unsaturated soil and vadose zones, and chemical characteristics of the organic chemicals pertaining to their mobility and persistence in the environment. The zone of contribution of the unconfined groundwater source must be defined and plotted. This should describe the groundwater flow directions, gradients, and a 3-year time-of-travel. All surface water bodies within 1,000 feet of the PWS well(s) must be plotted. Analytical monitoring history of the PWS well and those nearby should be provided as well.

Susceptibility Waiver for Confined Aquifers

Confined groundwater is isolated from overlying material by relatively impermeable geologic units. A confined aquifer is generally subject to pressures greater than atmospheric pressure. A well that is screened in a confined aquifer will have a static water level that determined by the pressure (hydrostatic head) at the top of the aquifer.

The susceptibility of a confined aquifer relates to the probability of an introduced contaminant to travel from the source of contamination to the aquifer. Important hydrogeologic controls include the depth of the aquifer, the permeability of the soil and vadose zones, the thickness and uniformity of low permeability and confining layers between the surface and the aquifer, and hydrostatic head of the aquifer.

A confined aquifer may eventually be affected by contaminated groundwater from elsewhere in the recharge area. Improper well construction or abandonment can act as a hydraulic connection to the confined aquifer. The extent of confinement of an aquifer is critical to limiting susceptibility to organic chemical contamination. The extent of confinement must be demonstrated by the PWS in order to be considered for a confined aquifer susceptibility waiver. Typical information includes: pump test data (storage coefficient), geologic mapping, well logs, water quality history, and available information related to any other wells, active or abandoned, in the recharge region.

APPENDIX E

CONCURRENCE LETTER

```

# ----- WARNING -----
# The data you have obtained from this automated U.S. Geological Survey database
# have not received Director's approval and as such are provisional and subject to
# revision. The data are released on the condition that neither the USGS nor the
# United States Government may be held liable for any damages resulting from its use.
# Additional info: http://waterdata.usgs.gov/nwis/help/?provisional
#
# File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
# Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info
#
# Contact: gs-w_support_nwisweb@usgs.gov
# retrieved: 2007-07-27 13:57:22 EDT
#
# Data for the following site(s) are contained in this file
# USGS 06130500 Musselshell River at Mosby MT
# -----
#
# Data provided for site 06130500
# DD parameter statistic Description
# 02 00060 00003 Discharge, cubic feet per second (Mean)
# 07 00065 00003 Gage height, feet (Mean)
#
# Data-value qualification codes included in this output:
# Ice Ice affected
# A Approved for publication -- Processing and review completed.
# P Provisional data subject to revision.
# e Value has been estimated.
#
agency_cd site_no datetime 02_00060_00003 02_00060_00003_cd 07_00065_00003
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USGS	06130500	1971-02-26	1060	A
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USGS	06130500	1971-03-04	534	A
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USGS	06130500	1972-04-27	156	A
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USGS	06130500	1973-06-23	187	A
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USGS	06130500	1973-06-30	120	A
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USGS	06130500	1973-07-02	113	A
USGS	06130500	1973-07-03	196	A
USGS	06130500	1973-07-04	164	A
USGS	06130500	1973-07-05	113	A
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USGS	06130500	1973-07-07	59	A
USGS	06130500	1973-07-08	48	A
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USGS	06130500	1973-07-14	1.6	A
USGS	06130500	1973-07-15	2.8	A
USGS	06130500	1973-07-16	0.80	A
USGS	06130500	1973-07-17	0.80	A
USGS	06130500	1973-07-18	0.80	A
USGS	06130500	1973-07-19	0.40	A
USGS	06130500	1973-07-20	0.80	A
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USGS	06130500	1973-07-23	110	A
USGS	06130500	1973-07-24	54	A
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USGS	06130500	1974-08-31	215	A
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USGS	06130500	1979-04-14	2120	A
USGS	06130500	1979-04-15	1890	A
USGS	06130500	1979-04-16	1800	A
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USGS	06130500	1979-04-18	1900	A
USGS	06130500	1979-04-19	1840	A
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USGS	06130500	1979-04-26	1700	A
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USGS	06130500	1979-04-28	1690	A
USGS	06130500	1979-04-29	1540	A
USGS	06130500	1979-04-30	1510	A
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USGS	06130500	1979-05-06	1480	A
USGS	06130500	1979-05-07	2150	A
USGS	06130500	1979-05-08	1780	A
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USGS	06130500	1979-05-16	1580	A
USGS	06130500	1979-05-17	1570	A

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USGS	06130500	1979-05-19	1540	A
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USGS	06130500	1979-05-22	1780	A
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USGS	06130500	1979-05-27	1080	A
USGS	06130500	1979-05-28	1190	A
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USGS	06130500	1979-06-02	1760	A
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USGS	06130500	1979-07-15	245	A
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USGS	06130500	1979-09-02	257	A

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USGS	06130500	1980-06-07	837	A
USGS	06130500	1980-06-08	732	A
USGS	06130500	1980-06-09	682	A
USGS	06130500	1980-06-10	784	A
USGS	06130500	1980-06-11	821	A
USGS	06130500	1980-06-12	722	A
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USGS	06130500	1986-09-15	90	A
USGS	06130500	1986-09-16	82	A
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USGS	06130500	1986-11-30	110	Ae

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USGS	06130500	1987-05-16	7.6	A
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USGS	06130500	2005-03-15	4.1	A	1.21	A
USGS	06130500	2005-03-16	4.0	A	1.21	A
USGS	06130500	2005-03-17	4.4	A	1.22	A
USGS	06130500	2005-03-18	4.3	A	1.21	A
USGS	06130500	2005-03-19	3.9	A	1.21	A
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USGS	06130500	2005-03-22	4.5	A	1.22	A
USGS	06130500	2005-03-23	3.8	A	1.20	A
USGS	06130500	2005-03-24	8.7	A	1.29	A
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USGS	06130500	2006-01-12	20	Ae	2.27	A
USGS	06130500	2006-01-13	20	Ae	2.17	A
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USGS	06130500	2006-01-16	20	Ae	2.15	A
USGS	06130500	2006-01-17	20	Ae	1.93	A
USGS	06130500	2006-01-18	20	Ae	1.97	A
USGS	06130500	2006-01-19	20	Ae	2.09	A
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USGS	06130500	2006-01-21	20	Ae	1.95	A
USGS	06130500	2006-01-22	20	Ae	2.10	A
USGS	06130500	2006-01-23	20	Ae	1.91	A
USGS	06130500	2006-01-24	25	Ae	1.94	A
USGS	06130500	2006-01-25	25	Ae	1.95	A
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USGS	06130500	2006-02-01	20	Ae	1.83	A
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USGS	06130500	2006-02-08	20	Ae	1.55	A
USGS	06130500	2006-02-09	20	Ae	1.51	A
USGS	06130500	2006-02-10	20	Ae	1.68	A
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USGS	06130500	2006-02-14	20	Ae	1.63	A
USGS	06130500	2006-02-15	20	Ae	1.61	A
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USGS	06130500	2006-02-17	15	Ae		
USGS	06130500	2006-02-18	20	Ae	1.57	A

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USGS	06130500	2006-03-08	35	Ae	1.85	A
USGS	06130500	2006-03-09	35	Ae	1.84	A
USGS	06130500	2006-03-10	35	Ae	1.72	A
USGS	06130500	2006-03-11	35	Ae	1.77	A
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USGS	06130500	2006-03-15	35	Ae	1.53	A
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USGS	06130500	2006-03-17	35	A	1.49	A
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USGS	06130500	2006-03-27	38	A	1.51	A
USGS	06130500	2006-03-28	36	A	1.50	A
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USGS	06130500	2006-03-30	38	A	1.52	A
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USGS	06130500	2006-04-22	330	A	2.88	A
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USGS	06130500	2006-04-24	335	A	2.89	A
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USGS	06130500	2006-04-26	281	A	2.73	A
USGS	06130500	2006-04-27	287	A	2.75	A
USGS	06130500	2006-04-28	286	A	2.74	A
USGS	06130500	2006-04-29	306	A	2.81	A
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USGS	06130500	2006-05-11	74	A	1.89	A
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USGS	06130500	2006-05-13	41	A	1.61	A
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USGS	06130500	2006-05-15	25	Ae		
USGS	06130500	2006-05-16	25	Ae		
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USGS	06130500	2006-05-28	46	A	1.68	A
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USGS	06130500	2006-05-30	52	A	1.74	A
USGS	06130500	2006-05-31	133	A	2.24	A
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USGS	06130500	2006-06-02	225	A	2.62	A
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USGS	06130500	2006-06-10	64	A	1.88	A
USGS	06130500	2006-06-11	68	A	1.91	A
USGS	06130500	2006-06-12	66	A	1.91	A
USGS	06130500	2006-06-13	85	A	2.02	A
USGS	06130500	2006-06-14	220	A	2.62	A
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USGS	06130500	2006-06-16	356	A	3.08	A
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USGS	06130500	2006-06-23	72	A	1.95	A
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USGS	06130500	2006-06-25	58	A	1.86	A
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USGS	06130500	2006-08-14	0.00	A	0.92	A
USGS	06130500	2006-08-15	0.00	A	0.91	A
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USGS	06130500	2006-09-03	18	A	1.43	A
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USGS	06130500	2006-09-11	22	A	1.47	A
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USGS	06130500	2006-09-14	18	A	1.43	A
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USGS	06130500	2006-09-26	46	A	1.70	A
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USGS	06130500	2006-10-08	42	P	1.66	P
USGS	06130500	2006-10-09	45	P	1.69	P
USGS	06130500	2006-10-10	47	P	1.71	P
USGS	06130500	2006-10-11	53	P	1.75	P
USGS	06130500	2006-10-12	60	P	1.80	P
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USGS	06130500	2006-10-14	84	P	1.96	P
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USGS	06130500	2006-10-16	87	P	1.98	P
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USGS	06130500	2006-10-19	110	P	2.10	P
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USGS	06130500	2006-10-22	144	P	2.26	P
USGS	06130500	2006-10-23	125	P	2.18	P
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USGS	06130500	2006-10-25	109	P	2.09	P
USGS	06130500	2006-10-26	105	P	2.07	P
USGS	06130500	2006-10-27	105	P	2.08	P
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USGS	06130500	2006-11-02	Ice	P	3.09	P
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USGS	06130500	2006-11-10	71	P	1.88	P
USGS	06130500	2006-11-11	77	P	1.92	P
USGS	06130500	2006-11-12	73	P	1.89	P
USGS	06130500	2006-11-13	67	P	1.85	P
USGS	06130500	2006-11-14	56	P	1.77	P
USGS	06130500	2006-11-15	Ice	P	1.74	P

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USGS	06130500	2006-11-18	43	P	1.67	P
USGS	06130500	2006-11-19	Ice	P	1.87	P
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USGS	06130500	2006-11-26	Ice	P	2.78	P
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# Contact: gs-w_support_nwisweb@usgs.gov
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#
# Data for the following site(s) are contained in this file
# USGS 06127500 Musselshell River at Musselshell MT
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#
# Data provided for site 06127500
# DD parameter statistic Description
# 01 00060 00003 Discharge, cubic feet per second (Mean)
# 03 00065 00003 Gage height, feet (Mean)
#
# Data-value qualification codes included in this output:
# A Approved for publication -- Processing and review completed.
# P Provisional data subject to revision.
# e Value has been estimated.
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USGS	06127500	1972-08-03	179	A
USGS	06127500	1972-08-04	240	A
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USGS	06127500	1972-08-11	182	A
USGS	06127500	1972-08-12	181	A
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USGS	06127500	1973-03-02	147	A

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USGS	06127500	1975-01-03	45	A
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USGS	06127500	1975-01-05	45	A
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USGS	06127500	2007-03-24				
USGS	06127500	2007-03-25				
USGS	06127500	2007-03-26				
USGS	06127500	2007-03-27				
USGS	06127500	2007-03-28				
USGS	06127500	2007-03-29				
USGS	06127500	2007-03-30				
USGS	06127500	2007-03-31				
USGS	06127500	2007-04-01	14	P	2.52	P
USGS	06127500	2007-04-02	18	P	2.56	P
USGS	06127500	2007-04-03	25	P	2.64	P
USGS	06127500	2007-04-04	26	P	2.64	P
USGS	06127500	2007-04-05	29	P	2.67	P
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USGS	06127500	2007-04-07	35	P	2.72	P
USGS	06127500	2007-04-08	32	P	2.69	P
USGS	06127500	2007-04-09	28	P	2.67	P
USGS	06127500	2007-04-10	26	P	2.65	P
USGS	06127500	2007-04-11	24	P	2.63	P
USGS	06127500	2007-04-12	26	P	2.65	P
USGS	06127500	2007-04-13	25	P	2.64	P
USGS	06127500	2007-04-14	23	P	2.62	P
USGS	06127500	2007-04-15	24	P	2.63	P
USGS	06127500	2007-04-16	23	P	2.62	P
USGS	06127500	2007-04-17	22	P	2.61	P
USGS	06127500	2007-04-18	23	P	2.62	P
USGS	06127500	2007-04-19	31	P	2.69	P
USGS	06127500	2007-04-20	36	P	2.73	P
USGS	06127500	2007-04-21	35	P	2.72	P
USGS	06127500	2007-04-22	36	P	2.72	P
USGS	06127500	2007-04-23	35	P	2.72	P
USGS	06127500	2007-04-24	33	P	2.70	P
USGS	06127500	2007-04-25	32	P	2.70	P
USGS	06127500	2007-04-26	33	P	2.70	P
USGS	06127500	2007-04-27	33	P	2.70	P

USGS	06127500	2007-04-28	32	P	2.70	P
USGS	06127500	2007-04-29	57	P	2.86	P
USGS	06127500	2007-04-30	66	P	2.92	P
USGS	06127500	2007-05-01	80	P	3.00	P
USGS	06127500	2007-05-02	84	P	3.02	P
USGS	06127500	2007-05-03	93	P	3.07	P
USGS	06127500	2007-05-04	103	P	3.12	P
USGS	06127500	2007-05-05	94	P	3.07	P
USGS	06127500	2007-05-06	92	P	3.06	P
USGS	06127500	2007-05-07	90	P	3.05	P
USGS	06127500	2007-05-08	87	P	3.03	P
USGS	06127500	2007-05-09	52	P	2.83	P
USGS	06127500	2007-05-10	35	P	2.72	P
USGS	06127500	2007-05-11	52	P	2.83	P
USGS	06127500	2007-05-12	63	P	2.90	P
USGS	06127500	2007-05-13	59	P	2.88	P
USGS	06127500	2007-05-14	62	P	2.89	P
USGS	06127500	2007-05-15	64	P	2.91	P
USGS	06127500	2007-05-16	59	P	2.88	P
USGS	06127500	2007-05-17	83	P	3.02	P
USGS	06127500	2007-05-18	111	P	3.15	P
USGS	06127500	2007-05-19	110	P	3.14	P
USGS	06127500	2007-05-20	98	P	3.09	P
USGS	06127500	2007-05-21	125	P	3.21	P
USGS	06127500	2007-05-22	181	P	3.44	P
USGS	06127500	2007-05-23	321	P	3.89	P
USGS	06127500	2007-05-24	366	P	4.02	P
USGS	06127500	2007-05-25	344	P	3.96	P
USGS	06127500	2007-05-26	260	P	3.71	P
USGS	06127500	2007-05-27	226	P	3.60	P
USGS	06127500	2007-05-28	188	P	3.47	P
USGS	06127500	2007-05-29	169	P	3.40	P
USGS	06127500	2007-05-30	172	P	3.41	P
USGS	06127500	2007-05-31	175	P	3.42	P
USGS	06127500	2007-06-01	213	P	3.55	P
USGS	06127500	2007-06-02	231	P	3.62	P
USGS	06127500	2007-06-03	250	P	3.68	P
USGS	06127500	2007-06-04	249	P	3.67	P
USGS	06127500	2007-06-05	245	P	3.66	P
USGS	06127500	2007-06-06	232	P	3.62	P
USGS	06127500	2007-06-07	251	P	3.68	P
USGS	06127500	2007-06-08	256	P	3.70	P
USGS	06127500	2007-06-09	274	P	3.75	P
USGS	06127500	2007-06-10	300	P	3.83	P
USGS	06127500	2007-06-11	309	P	3.85	P
USGS	06127500	2007-06-12	268	P	3.73	P
USGS	06127500	2007-06-13	227	P	3.60	P
USGS	06127500	2007-06-14	194	P	3.49	P
USGS	06127500	2007-06-15	170	P	3.40	P
USGS	06127500	2007-06-16	154	P	3.34	P
USGS	06127500	2007-06-17	158	P	3.35	P
USGS	06127500	2007-06-18	163	P	3.38	P
USGS	06127500	2007-06-19	156	P	3.35	P
USGS	06127500	2007-06-20	141	P	3.29	P

USGS	06127500	2007-06-21	139	P	3.28	P
USGS	06127500	2007-06-22	138	P	3.27	P
USGS	06127500	2007-06-23	113	P	3.16	P
USGS	06127500	2007-06-24	89	P	3.05	P
USGS	06127500	2007-06-25	85	P	3.03	P
USGS	06127500	2007-06-26	55	P	2.85	P
USGS	06127500	2007-06-27	38	P	2.74	P
USGS	06127500	2007-06-28	23	P	2.62	P
USGS	06127500	2007-06-29	52	P	2.83	P
USGS	06127500	2007-06-30	57	P	2.87	P
USGS	06127500	2007-07-01	65	P	2.91	P
USGS	06127500	2007-07-02	58	P	2.87	P
USGS	06127500	2007-07-03	55	P	2.86	P
USGS	06127500	2007-07-04	70	P	2.95	P
USGS	06127500	2007-07-05	109	P	3.14	P
USGS	06127500	2007-07-06	95	P	3.08	P
USGS	06127500	2007-07-07	90	P	3.05	P
USGS	06127500	2007-07-08	126	P	3.22	P
USGS	06127500	2007-07-09	142	P	3.29	P
USGS	06127500	2007-07-10	207	P	3.53	P
USGS	06127500	2007-07-11	207	P	3.53	P
USGS	06127500	2007-07-12	159	P	3.36	P
USGS	06127500	2007-07-13	152	P	3.33	P
USGS	06127500	2007-07-14	138	P	3.27	P
USGS	06127500	2007-07-15	150	P	3.33	P
USGS	06127500	2007-07-16	146	P	3.31	P
USGS	06127500	2007-07-17	150	P	3.32	P
USGS	06127500	2007-07-18	162	P	3.37	P
USGS	06127500	2007-07-19	143	P	3.30	P
USGS	06127500	2007-07-20	154	P	3.34	P
USGS	06127500	2007-07-21	142	P	3.29	P
USGS	06127500	2007-07-22	145	P	3.31	P
USGS	06127500	2007-07-23	143	P	3.30	P
USGS	06127500	2007-07-24	142	P	3.29	P
USGS	06127500	2007-07-25	142	P	3.29	P
USGS	06127500	2007-07-26	151	P	3.33	P



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attributes, output
the results using
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result per row,
expanded attributes.
Additional
precautions are at:
http://waterdata.usgs.gov/nwis/qwdata?help#Data_retrievals_precautions.

USGS 06126500 Musselshell River near Roundup MT

Available data for this site

Musselshell County,
Montana
Hydrologic Unit Code
10040202
Latitude 46°25'41",
Longitude 108°34'19"
NAD27
Drainage area 4,023
square miles
Gage datum
3,188.15 feet above se
a level NGVD29

GO

er-Quality: Field/Lab samples

Sample Datetime	Temper- ature, water, deg C -10	Turbid- ity, JTU -70	Specif- ic conduc- tance, wat unf uS/cm 25 deaC -95	pH, water, unfltrd field, std units -400	pH, water, unfltrd lab, std units -403	Carbon dioxide water, unfltrd mg/L -405	ANC, wat unf fixed end pt, field, mg/L as CaCO3 -410
1977-10-18 12:30	9.0	2	2180	8.2		3.4	280
1977-11-23 11:00	0.0	2	2350	8.1		5.6	360
1977-12-12 13:00	0.0	3	2340	8.2		4.0	330
1978-01-25 13:15	0.0	2	1950	7.8		10	330
1978-02-16 12:00	0.0	3	1850	7.9		6.4	260
1978-03-22 12:00	1.0		530	7.9			
1978-03-24 10:00	2.0	900	817	8.0		2.6	130
1978-04-19 12:00	9.0	45	1850	8.4		2.2	290
1978-05-16 14:45	18.0	90	900	8.3		2.0	210
1978-06-16 12:30	17.0	60	940	8.5		1.3	210
1978-07-13 12:00	21.5	55	970	8.4		1.8	230
1978-08-16 14:30	19.5	20	1420	8.4		1.8	230
1978-09-13 10:00	10.0	35	1440	8.4		1.7	220
1978-10-11 14:15	12.5		1680	8.2		3.2	260
1978-11-07 13:45	6.0		1410	8.2		3.2	260
1978-12-12 13:45	0.5		1690	8.1		4.6	300
1979-01-09 14:45	0.5		1750	7.8		6.7	220
1979-02-06 14:30	0.0		1530	7.7		10	270
1979-03-06 15:00	0.5		1420	8.1		4.0	260
1979-03-11 16:30	1.5		796	8.0		2.1	110

1979-04-04 15:45	4.0		1840	8.3		3.0	310
1979-05-09 14:00	8.0		1340	8.3		2.2	230
1979-06-12 16:00	23.0		1220	8.4		1.8	230
1979-06-21 14:15	18.0		870	8.0		3.3	170
1979-06-23 11:15	17.0		678	7.9		3.9	160
1979-08-09 14:45	23.0		1270	8.3		2.2	230
1979-09-07 10:45	19.0		1380	8.5		1.3	220
1979-10-18 11:15	10.0		1710	8.4		2.0	260
1979-11-07 10:30	2.5		1710	8.5		1.6	270
1979-12-05 10:30	1.0		1740	8.3		2.9	300
1980-01-10 10:30	0.0		1970	8.1		5.5	360
1980-02-12 15:00	0.5		1750	8.1		4.7	310
1980-03-18 10:00	1.0		1580	8.1		3.4	220
1980-04-16 08:30	9.0		2090	8.5		1.7	280
1980-05-27 15:00	14.0		1080	8.3		1.5	160
1980-06-17 11:15	17.0		960	8.4		1.4	190
1980-07-15 10:15	19.0		1040	8.5		1.3	210
1980-08-14 10:30	19.0		1380	8.4		1.8	240
1980-09-10 10:30	16.0		1360	8.4		1.8	230
1980-10-02 14:00	8.0		1510	8.3	8.3	2.5	260
1980-11-05 11:15	7.5		1970	8.3	8.2	2.7	
1980-12-10 11:00	0.5		2240	8.1	8.0	4.3	280
1981-01-09 10:30	1.0		1510	8.4	8.2	1.7	220
1981-02-19 10:00	1.0		1360	8.4	8.3	1.8	240
1981-03-18 10:15	5.0		1660	8.3	8.3	2.5	260
1981-04-09 11:00	6.5		2250	8.4	8.4	2.4	310
1981-05-13 14:30	8.0		1780	8.3	7.7	2.1	220
1981-05-19 10:30	12.0		920	8.1	7.6	3.5	230
1981-07-15 11:15	21.5		1320		8.3		
1981-08-12 10:15	21.0		1280	8.6	8.5	1.0	210

Sample Datetime	Temper- ature, water, deg C (00010)	Turbid- ity, JTU (00070)	Specif- ic conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Carbon dioxide water, unfltrd mg/L (00405)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)
1981-09-23 10:15	13.0		1600	8.4	8.3	1.8	240
1982-06-11 09:20	15.0		1070				
1982-06-28 12:15	21.0		934				
1982-08-03 14:10	22.0		1220				
1982-09-30 12:35	8.0		1420				
1982-11-08 11:15	1.5		2300				

1982-12-21 11:15	0.0		2120				
1983-02-02 09:55	0.0		1530				
1983-03-16 08:35	5.0		2030				
1983-05-04 08:35	11.0		1780				
1983-06-07 08:30	17.0		1550				
1983-06-14 16:45	18.0		1220				
1983-06-16 09:30	18.0		1080				
1983-07-13 08:30	20.0		1180				
1983-08-24 09:40	20.0		1200				
1983-10-18 14:40	7.0		1890				
1983-11-09 11:50	4.0		2000				
1983-12-29 14:20	0.5		2430				
1984-02-02 11:55	1.0		1800				
1984-03-15 14:10	4.0		2160				
1984-04-27 12:05	5.0		1200				
1984-05-18 10:55	8.5		1120				
1984-05-23 14:30	15.5		890				
1984-06-07 11:40	15.0		1200				
1984-07-19 11:45	23.0		1200				
1984-08-27 13:35	21.0		1200				
1984-10-09 13:50	14.0		2000				
1984-11-13 15:10	3.0		2160				
1985-01-08 15:30	0.5		2400				
1985-02-19 14:20	0.5		3100				
1985-03-19 16:50	1.0		2080				
1985-04-10 14:45	12.0		2360				
1985-05-15 14:30	16.0		1460				
1985-06-24 16:00	19.0		1300				
1985-07-29 13:45	17.5		2150				
1985-08-08 09:00	18.5		2150				
1985-09-26 09:30	8.0		2350				
1985-11-07 10:35	3.0		2200				
1985-12-17 14:50	0.0		2450				
1986-01-29 15:25	0.0		2500				
1986-02-28 12:00	3.5		630				
1986-04-23 15:55	15.5		2900				
1986-06-12 11:30	19.0		1100				
1986-07-24 15:25	25.0		1280				
1986-09-02 14:35	19.0		1400				
1986-10-15 15:00	12.0		2100				
1986-11-17 13:30	0.0		2900				
1986-12-31 10:30	0.0		2800				
1987-02-19 15:45	2.0		2340				
1987-04-03 13:35	12.0		2700				

Sample Datetime			Specif- ic conduc-	pH, water,	pH, water,	Carbon	ANC, wat unf fixed
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	Temperature, water, deg C (00010)	Turbidity, JTU (00070)	Conductance, water unf uS/cm 25 deaC (00095)	unfiltered field, std units (00400)	unfiltered lab, std units (00403)	dioxide water, unfiltered mg/L (00405)	end pt, field, mg/L as CaCO3 (00410)
1987-05-20 11:00	11.0		1380				
1987-07-01 16:15	25.0		1200				
1987-08-18 10:25	16.0		1430				
1987-10-01 14:15	15.5		1800				
1987-11-12 16:00	7.0		1950				
1988-01-14 14:45	0.5		3250				
1988-02-17 15:00	0.5		2400				
1988-03-29 17:20	6.0		2550				
1988-05-12 11:45	19.5		3400				
1988-06-23 13:45	28.0		1350				
1988-07-12 11:10	22.0		950				
1988-07-27 14:00	25.0		2120				
1988-08-17 16:15	25.5		1710				
1988-08-24 12:30	19.0		1900				
1988-10-05 13:40	15.0		2600				
1988-11-08 16:30	5.0		2850				
1988-12-22 11:25	1.0		2680				
1989-02-14 12:30	0.0		3000				
1989-03-28 11:20	6.5		2300				
1989-05-18 13:30	19.0		1970				
1989-06-26 09:20	15.5		1960				
1989-08-07 09:50	20.0		1920				
1989-09-18 11:10	15.0		2000				
1989-10-03 09:50	6.5		1610				
1989-10-24 15:10	10.0		2020				
1989-12-12 12:25	0.0		2580				
1990-01-29 12:30	0.0		2250				
1990-03-12 09:35	4.0		2350				
1990-04-30 13:55	9.0		3100				
1990-05-14 15:00	16.0		3550				
1990-06-04 13:40	17.0		1040				
1990-08-06 09:25	21.0		1160				
1990-08-23 08:15	19.0		1150				
1990-09-20 11:30	15.0		2060				
1990-11-14 15:20	6.0		2350				
1991-02-06 16:30	0.0		2620				
1991-03-15 10:50	4.0		2360				
1991-05-06 09:45	10.0		2600				
1991-05-23 10:45	17.5		753				
1991-06-18 10:15	17.0		930				
1991-08-13 13:10	24.0		1190				
1991-10-01 09:25	13.5		1730				

1991-11-15 12:25	0.0		2150				
1991-12-27 09:45	0.0		2730				
1992-01-31 09:00	0.0		2150				
1992-03-02 09:45	5.0		2130				
1992-04-06 12:55	10.5		2620				
1992-05-12 14:45	15.0		1220				
1992-06-12 12:30	25.0		2150				
1992-06-21 09:10	20.5		857				

Sample Datetime	Temper- ature, water, deg C (00010)	Turbid- ity, JTU (00070)	Specif- ic conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Carbon dioxide water, unfltrd mg/L (00405)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)
1992-06-23 08:55	22.0		1170				
1992-08-19 11:35	21.0		1340				
1992-10-05 09:30	10.5		1740				
1992-11-17 10:00	2.5		2050				
1993-01-05 09:25	0.0		2220				
1993-03-01 12:25	0.0		2050				
1993-03-22 13:10	6.0		1800				
1993-05-03 10:05	12.5		2440				
1993-05-19 10:55	16.5		727				
1993-06-07 10:20	14.5		1390				
1993-07-15 10:20	16.0		1030				
1993-08-16 09:10	20.0		1040				
1993-11-17 09:00	1.0		1080				
1993-12-21 09:30	0.5		1030				
1994-02-10 12:20	0.5		1380				
1994-03-21 08:50	4.0		1360				
1994-06-15 12:25	18.5		1420				
1994-07-22 08:35	20.0		930				
1994-09-01 13:00	15.0		1120				
1994-10-07 13:20	9.5		1050				
1994-11-22 10:20	0.0		1700				
1995-01-05 11:10	0.0		2230				
1995-03-30 09:00	3.0		2320				
1995-05-16 10:10	13.0		902				
1995-07-05 12:55	18.5		1010				
1995-09-06 10:15	18.5		1280				
1995-10-10 13:25	9.5		890				
1995-11-30 09:10	3.5		1520				

1996-01-12 10:45	0.0		1780				
1996-02-12 12:30	0.0		100				
1996-05-15 11:25	15.5		1350				
1996-06-05 14:35	19.0		707				
1996-07-18 12:45	23.5		1100				
1996-09-05 12:50	17.5		1280				
1996-11-05 13:20	5.5		1490				
1997-05-29 12:00	16.0		747				
1997-08-13 12:02	20.0		1140				
1997-09-10 08:48	17.5		1110				
1997-12-17 14:05	0.5		1380				
1998-03-16 15:00	4.0		1700				
1998-05-19 17:30	16.5		1400				
1998-08-24 18:10	22.5		1110				
1998-09-30 08:15	13.5		1470				
1998-11-13 10:15	3.0		1550				
1999-03-15 12:10	6.5		1580				
1999-04-26 10:20	12.5		2520				
1999-06-14 10:35	18.0		1070				
1999-08-06 09:35	22.0		1000				
1999-10-04 09:45	8.0		1350				
2000-01-26 14:30	0.0		2290				

Sample Datetime	Temper- ature, water, deg C (00010)	Turbid- ity, JTU (00070)	Specif- ic conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Carbon dioxide water, unfltrd mg/L (00405)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)
2000-03-20 10:00	2.5		2030				
2000-04-06 09:52	8.0		2360				
2000-04-27 10:15	13.0		2100				
2000-06-14 09:25	16.5		1140				
2000-08-02 15:10	25.5		1400				
2000-10-03 09:05	10.5		2040				
2000-11-28 13:05	0.0		2300				
2001-01-24 10:40	0.0		2150				
2001-03-22 13:25	6.5		1720				
2001-05-01 09:45	13.0		2690				
2001-06-19 09:00	15.5		1900				
2001-10-03 08:10	7.0		2210				
2001-11-13 11:10	3.0		2390				
2002-01-08 12:15	0.0		2630				

2002-04-16 12:10	8.0		2130				
2002-05-29 10:00	18.5		1230				
2002-07-23 10:25	20.0		1940				
2002-08-26 08:20	18.0		2140				
2002-12-12 11:35	0.0		2510				
2003-02-18 11:10	0.0		2480				
2003-03-25 09:32	4.0		1390				
2003-05-21 10:45	14.0		1200				
2003-06-12 08:37	16.5		990				
2003-07-02 09:48	23.0		1120				
2003-08-12 10:04	22.0		2130				
2003-09-24 10:02	12.5		1640				
2003-10-29 08:50	3.0		3480				
2003-11-05 09:20	0.0		1050				
2003-12-09 14:10	0.0		4450				
2004-01-21 10:30	0.0		3350				
2004-01-22 11:25	0.0		2050				
2004-03-04 09:30	0.0		3120				
2004-03-15 09:20	3.5		1080				
2004-03-22 10:30	7.0		1400				
2004-03-29 14:40	13.5		1890				
2004-03-29 15:30	1.0		1070				
2004-04-05 16:00	8.0		980				
2004-04-20 10:40	8.5		1780				
2004-05-04 10:36	14.0		1560				
2004-05-12 15:00	9.0		1160				
2004-05-12 16:20	8.5		1130				
2004-05-27 07:50	12.5		1770				
2004-06-03 13:50	17.5		1200				
2004-06-08 11:00	15.5		1410				
2004-06-09 08:15	12.5		1360				
2004-06-15 13:25	18.5		885				
2004-07-23 09:15	19.5		1290				
2004-07-23 10:30	22.0		1390				
2004-07-27 10:00	22.0		2330				
2004-09-02 16:40	20.5		2640				

Sample Datetime	Temper- ature, water, deg C (00010)	Turbid- ity, JTU (00070)	Specif- ic conduc- tance, wat unf uS/cm 25 deaC (00095)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Carbon dioxide water, unfltrd mg/L (00405)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)
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2004-09-08 08:45	14.0		1620				
2004-09-08 10:00	16.0		1770				
2004-11-01 14:25	5.0		1340				
2005-01-19 12:45	0.5		2250				
2005-03-04 13:15	5.5		1790				
2005-04-27 12:45	10.5		1460				
2005-10-11 14:05	10.5		1120				
2005-12-20 15:00	0.0		1850				
2006-01-31 13:45	1.0		963				
2006-03-23 14:45	8.0		1680				
2006-06-21 12:40	20.5		1120				
2006-08-03 08:00	19.0		1020				
2006-09-18 12:10	12.0		1210				
2006-11-02 13:50	1.0		1290				
2007-03-14 12:50	8.0		1550				
2007-03-27 11:57	11.5		1880				
2007-05-08 12:35	18.0		1290				

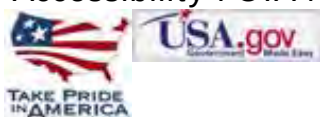
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7.88 3.87 nadww01

Bicar- bonate, wat unf fixed end pt, field, mg / L -440	Carbon- ate, wat unf fixed end pt, field, mg / L -445	Hard- ness, water, mg / L as CaCO3 -900	Noncar b hard- ness, wat unf field, mg / L as CaCO3 -902	Calcium water, fltrd, mg / L -915	Magnes- ium, water, fltrd, mg / L -925	Sodium water, fltrd, mg / L -930	Sodium adsorp- tion ratio -931	Sulfate water, fltrd, mg / L (00945)	Fluor- ide, water, fltrd, mg / L (00950)
340	0.0	710	430	120	100	260	4.2	930	0.40
440	0.0	830	470	150	110	280	4.2	1000	0.50
400	0.0	830	500	150	110	280	4.2	1000	0.40
400	0.0	730	400	140	93.0	200	3.2	780	0.40
320	0.0	710	450	130	94.0	120	2.0	690	0.30
160	0.0	240	110	48.0	29.0	78.0	2.2	250	0.20
350	0.0	620	330	110	83.0	220	3.9	710	0.40
250	0.0	340	130	72.0	38.0	75.0	1.8	280	0.30
250	5	370	160	80.0	42.0	80.0	1.8	310	0.40
270	5	400	170	83.0	46.0	88.0	1.9	340	0.40
260	9	460	230	88.0	59.0	140	2.8	510	0.20
260	4	490	270	100	58.0	150	3.0	530	0.40
		630	370	100	93.0	170	2.9	700	0.30
		510	250	100	64.0	140	2.7	490	0.30
		650	350	120	84.0	160	2.7	630	0.30
		530	310	79.0	80.0	170	3.2	630	0.30
		550	280	110	67.0	120	2.2	540	0.20
		520	260	110	60.0	130	2.5	520	0.40
		230	120	51.0	26.0	83.0	2.4	280	0.20

		600	290	110	79.0	210	3.7	710	0.40
		440	210	85.0	55.0	150	3.1	460	0.30
		430	200	88.0	52.0	130	2.7	440	0.30
		300	130	64.0	34.0	80.0	2.0	270	0.30
		250	89	57.0	26.0	150	4.1	190	0.30
		440	210	89.0	53.0	130	2.7	490	0.30
		500	280	91.0	66.0	150	2.9	550	0.50
		610	350	110	81.0	190	3.4	710	0.40
		580	310	110	75.0	170	3.1	660	0.40
		630	330	120	81.0	180	3.1	690	0.40
		670	310	130	83.0	190	3.2	730	0.40
		600	290	120	72.0	160	2.9	630	0.40
		500	280	92.0	66.0	180	3.5	630	0.30
		700	420	120	96.0	230	3.8	810	0.40
		330	170	68.0	38.0	100	2.4	370	0.30
		290	100	63.0	33.0	95.0	2.4	290	0.40
		350	140	73.0	41.0	88.0	2.0	330	0.50
		440	210	83.0	56.0	140	2.9	500	0.40
		440	230	82.0	57.0	140	2.9	520	0.40
		480	230	86.0	65.0	160	3.2	570	0.30
		670	390	110	97.0	250	4.2	810	0.40
		740	380	140	96.0	250	4.0	870	0.30
		550	300	110	66.0	150	2.8	540	0.30
		480	240	95.0	59.0	140	2.8	480	0.30
		530	270	100	68.0	180	3.4	630	0.30
		780	470	130	110	260	4.1	1000	0.40
		520	300	88.0	72.0	220	4.2	760	0.20
		290	56	57.0	35.0	100	2.6	320	0.30
		450		83.0	59.0	130	2.7	500	0.30
		420	210	78.0	55.0	120	2.9	440	0.30

[illegible]

[illegible]

Silica, water, fltrd, mg/L (00955)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Specif. conduc- tance, wat unf lab, uS/cm 25 deaC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)
5.90	4.0	20	<u>M</u>	0.739	1610			
9.00		30		0.793	1800			
9.00		20		1.67	1780			
9.40	1.0	<u>< 10</u>	<u>M</u>	1.84	1440			
9.60		<u>< 10</u>		1.64	1230			
				176				
5.90	10.0	110	<u>M</u>	99.7	505			
5.60		30		8.50	1340			
9.40		20		26.8	612			
7.00		<u>< 10</u>		24.3	660			
9.70	2.0	30	<u>M</u>	25.7	719			
6.20		<u>< 10</u>		6.20	958			
6.20		20		9.66	1000			
5.50		20		4.22	1250			
6.60		20		6.32	982			
9.40		20		4.96	1210			
9.90		30		3.03	1130			
11.0		<u>< 10</u>		3.48	1030			
9.50		20		6.00	1000			
5.90	1.0	30	<u>U</u>	96.0	532			

8.00		< 10		17.8	1330			
7.60		20		28.6	918			
7.00		< 10		8.69	871			
9.10		20		55.5	575			
11.0	2.0	170	M	127	448			
0.900		< 10		7.16	920			
6.40	2.0	< 10	U	5.21	1020			
5.40		30		2.78	1280			
6.90		10		3.57	1210			
7.10		20		3.96	1280			
7.60		30		1.61	1380			
7.80		20		3.29	1190			
6.50		20		5.01	1130			
4.50		20		4.81	1470			
9.40	9.0	240	M	34.3	696			
9.30		40		39.6	616			
8.40		< 10		10.1	680			
5.80		< 10		5.15	942			
6.00	2.0	< 10	M	3.51	950			
5.60		10		1.73	1060	1510	250	
4.90		10		2.10	1470	1940	280	
6.70		30		1.10	1610	2300	360	
7.50		10		2.75	1040	1500	250	
5.70		10		5.41	943	1380	240	
3.60		< 10		2.10	1160	1590	260	
3.50	4.0	50	0.0	1.44	1700	2260	270	510
6.00	12.0	100	M	22.9	1280	1780	180	340
9.50	3.0	140	M	111	640	952	170	120
7.00		10		9.23	936	1340	230	220
6.70		10		9.83	842	1270	210	210

Silica, water, fltrd, mg/L (00955)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Specif. conduc- tance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)
5.00		20		1.70	1140	1720	250	270
				73.1				
				57.5				
				12.3				
				12.1				
				3.14				

				4.22				
				5.30				
				3.65				
				2.18				
				5.86				
				14.2				
				10.7				
				11.2				
				9.54				
				2.86				
				2.24				
				0.765				
				4.73				
				3.09				
				5.15				
				13.7				
				9.77				
				7.96				
				5.49				
				5.92				
				1.24				
				1.20				
				0.521				
				0.168				
				3.14				
				1.71				
				5.58				
				5.27				
				0.146				
				0.827				
				0.504				
				0.943				
				0.617				
				1.05				
				40.2				
				1.76				
				15.0				
				4.87				
				9.15				
				1.84				
				1.35				
				1.02				
				1.89				
				1.51				

				Dis-	Residue water, fltrd,	Specif. conduc- tance,	ANC, wat unf fixed	Noncar b hard-
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Silica, water, fltrd, mg/L (00955)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	charge, instan- taneous m3/s (30209)	sum of consti- tuents mg/L (70301)	wat unf lab, uS/cm 25 deaC (90095)	end pt, lab, mg/L as CaCO3 (90410)	ness, water, mg/L as CaCO3 (95902)
				5.98				
				5.98				
				4.36				
				1.30				
				2.12				
				0.312				
				0.736				
				0.991				
				2.55				
				4.13				
				0.935				
				0.340				
				0.793				
				0.368				
				0.085				
				0.244				
				0.312				
				0.204				
				7.36				
				3.40				
				2.21				
				0.680				
				1.16				
				1.90				
				0.906				
				0.680				
				0.906				
				1.56				
				0.623				
				0.130				
				10.4				
				6.80				
				7.59				
				1.08				
				0.765				
				0.623				
				0.963				
				1.76				
				56.1				
				18.1				
				5.64				
				1.42				

				1.64				
				0.736				
				1.13				
				1.47				
				0.736				
				5.47				
				0.071				
				25.1				

Silica, water, fltrd, mg/L (00955)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Specif. conduc- tance, wat unf lab, uS/cm 25 deaC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)
				7.59				
				3.06				
				1.27				
				1.36				
				0.651				
				0.765				
				5.32				
				1.02				
				10.2				
				5.18				
				20.4				
				13.0				
				6.43				
				4.25				
				2.30				
				3.91				
				4.19				
				7.56				
				5.07				
				1.52				
				1.19				
				0.561				
				1.76				
				34.3				
				15.1				
				4.13				
				4.84				
				3.06				

				3.03				
				6.51				
				7.73				
				34.6				
				8.50				
				4.56				
				2.40				
				74.8				
				8.89				
				8.72				
				6.77				
				5.13				
				3.09				
				7.11				
				2.62				
				2.15				
				2.89				
				1.47				
				4.47				
				5.58				
				1.70				
				0.501				

Silica, water, fltrd, mg/L (00955)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Specif. conduc- tance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)
				0.680				
				0.323				
				0.012				
				4.22				
				0.317				
				0.095				
				0.236				
				0.377				
				0.739				
				0.050				
				0.085				
				0.004				
				0.155				
				0.232				

				0.044				
				1.97				
				0.152				
				0.056				
				0.238				
				0.182				
				0.609				
				3.85				
				12.4				
				3.62				
				0.234				
				0.247				
				0.135				
				1.29				
				0.114				
				0.078				
				0.334				
				0.080				
				0.634				
				0.206				
				0.054				
				4.02				
				3.85				
				0.977				
				0.300				
				4.76				
				5.10				
				2.39				
				3.68				
				0.867				
				1.16				
				7.11				
				1.02				
				1.13				
				0.124				
				0.091				

					Residue	Specif.	ANC,	
				Dis-	water,	conduc-	wat unf	Noncar
				charge,	fltrd,	tance,	fixed	b
				instan-	sum of	wat unf	end pt,	hard-
				taneous	consti-	lab,	lab,	ness,
				m3/s	tuents	uS/cm	mg/L	water,
				(30209	mg/L	25	as	mg/L
				)	(70301	degC	CaCO3	as
				)	)	(90095	(90410	CaCO3
				)	)	)	)	(95902
				)	)	)	)	)

				0.112				
				0.116				
				1.36				
				0.351				
				0.271				
				2.07				
				2.95				
				0.606				
				0.884				
				0.714				
				4.28				
				3.14				
				1.58				
				0.943				
				1.53				
				0.225				
				1.41				

USGS 06126500 Musselshell River near Roundup MT

Sample Datetime	Bicar- bonate, wat unf fixed end pt, field, mg/L -440	Carbon- ate, wat unf fixed end pt, field, mg/L -445	Hard- ness, water, mg/L as CaCO3 -900	Noncarb hard- ness, wat unf field, mg/L as CaCO3 -902	Calcium water, fltrd, mg/L -915	Magnes- ium, water, fltrd, mg/L -925	Dis- charge, instan- taneous m3/s (30209)
1977-10-18 12:30	340	0.0	710	430	120	100	0.739
1977-11-23 11:00	440	0.0	830	470	150	110	0.793
1977-12-12 13:00	400	0.0	830	500	150	110	1.67
1978-01-25 13:15	400	0.0	730	400	140	93.0	1.84
1978-02-16 12:00	320	0.0	710	450	130	94.0	1.64
1978-03-22 12:00							176
1978-03-24 10:00	160	0.0	240	110	48.0	29.0	99.7
1978-04-19 12:00	350	0.0	620	330	110	83.0	8.50
1978-05-16 14:45	250	0.0	340	130	72.0	38.0	26.8
1978-06-16 12:30	250	5	370	160	80.0	42.0	24.3
1978-07-13 12:00	270	5	400	170	83.0	46.0	25.7
1978-08-16 14:30	260	9	460	230	88.0	59.0	6.20
1978-09-13 10:00	260	4	490	270	100	58.0	9.66
1978-10-11 14:15			630	370	100	93.0	4.22
1978-11-07 13:45			510	250	100	64.0	6.32
1978-12-12 13:45			650	350	120	84.0	4.96
1979-01-09 14:45			530	310	79.0	80.0	3.03
1979-02-06 14:30			550	280	110	67.0	3.48
1979-03-06 15:00			520	260	110	60.0	6.00
1979-03-11 16:30			230	120	51.0	26.0	96.0
1979-04-04 15:45			600	290	110	79.0	17.8
1979-05-09 14:00			440	210	85.0	55.0	28.6
1979-06-12 16:00			430	200	88.0	52.0	8.69
1979-06-21 14:15			300	130	64.0	34.0	55.5
1979-06-23 11:15			250	89	57.0	26.0	127
1979-08-09 14:45			440	210	89.0	53.0	7.16
1979-09-07 10:45			500	280	91.0	66.0	5.21

1979-10-18 11:15			610	350	110	81.0	2.78
1979-11-07 10:30			580	310	110	75.0	3.57
1979-12-05 10:30			630	330	120	81.0	3.96
1980-01-10 10:30			670	310	130	83.0	1.61
1980-02-12 15:00			600	290	120	72.0	3.29
1980-03-18 10:00			500	280	92.0	66.0	5.01
1980-04-16 08:30			700	420	120	96.0	4.81
1980-05-27 15:00			330	170	68.0	38.0	34.3
1980-06-17 11:15			290	100	63.0	33.0	39.6
1980-07-15 10:15			350	140	73.0	41.0	10.1
1980-08-14 10:30			440	210	83.0	56.0	5.15
1980-09-10 10:30			440	230	82.0	57.0	3.51
1980-10-02 14:00			480	230	86.0	65.0	1.73
1980-11-05 11:15			670	390	110	97.0	2.10
1980-12-10 11:00			740	380	140	96.0	1.10
1981-01-09 10:30			550	300	110	66.0	2.75
1981-02-19 10:00			480	240	95.0	59.0	5.41
1981-03-18 10:15			530	270	100	68.0	2.10
1981-04-09 11:00			780	470	130	110	1.44
1981-05-13 14:30			520	300	88.0	72.0	22.9
1981-05-19 10:30			290	56	57.0	35.0	111
1981-07-15 11:15			450		83.0	59.0	9.23
1981-08-12 10:15			420	210	78.0	55.0	9.83



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Water Quality Samples for Montana

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USGS 06126500 Musselshell River near Roundup MT

Available data for this site	Water-Quality: Field		GO		samples		
Musselshell County, Montana Hydrologic Unit Code 10040202 Latitude 46°25'41", Longitude 108°34'19" NAD27 Drainage area 4,023 square miles Gage datum 3,188.15 feet above sea level NGVD29	Output formats						
	Parameter Group Period of Record table						
	Inventory of available water-quality data for printing						
	Inventory of water-quality data with retrieval						
	Tab-separated data, one result per row						
	Tab-separated data one sample per row with remark codes combined with value						
	Tab-separated data one sample per row with tab-delimiter for remark codes						
	Reselect output format						
Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample, Code	Temper- ature, water, deg C -10	Temper- ature, air, deg C -20	Agency ana- lyzing sample, code -28
1977-10-18 12:30	MDT	T	9		9.0	22.0	
1977-11-23 11:00	MST	T	9		0.0	-7.0	
1977-12-12 13:00	MST	T	9		0.0	4.0	
1978-01-25 13:15	MST	T	9		0.0	-10.0	
1978-02-16 12:00	MST	T	9		0.0	-5.0	
1978-03-22 12:00	MST	T	9		1.0	7.0	
1978-03-24 10:00	MST	T	9		2.0	10.0	
1978-04-19 12:00	MST	T	9		9.0	16.0	
1978-05-16 14:45	MDT	T	9		18.0	17.5	
1978-06-16 12:30	MDT	T	9		17.0	20.0	
1978-07-13 12:00	MDT	T	9		21.5	26.0	80020
1978-08-16 14:30	MDT	T	9		19.5	19.0	80020

1978-09-13 10:00	MDT	T	9		10.0	9.5	80020
1978-10-11 14:15	MDT	T	9		12.5	13.0	80020
1978-11-07 13:45	MST	T	9		6.0	11.0	80020
1978-12-12 13:45	MST	T	9		0.5	5.0	80020
1979-01-09 14:45	MST	T	9		0.5	-10.0	80020
1979-02-06 14:30	MST	T	9		0.0	1.0	80020
1979-03-06 15:00	MST	T	9		0.5	6.0	80020
1979-03-11 16:30	MST	T	9		1.5	17.0	80020
1979-04-04 15:45	MST	T	9		4.0	4.5	80020
1979-05-09 14:00	MDT	T	9		8.0	9.5	80020
1979-06-12 16:00	MDT	T	9		23.0	28.0	80020
1979-06-21 14:15	MDT	T	9		18.0	28.5	80020
1979-06-23 11:15	MDT	T	9		17.0	23.5	80020
1979-08-09 14:45	MDT	T	9		23.0	24.0	80020
1979-09-07 10:45	MDT	T	9		19.0	23.0	80020
1979-10-18 11:15	MDT	T	9		10.0	12.0	80020
1979-11-07 10:30	MST	T	9		2.5	8.0	80020
1979-12-05 10:30	MST	T	9		1.0	7.0	80020
1980-01-10 10:30	MST	T	9		0.0	-17.0	80020
1980-02-12 15:00	MST	T	9		0.5	-2.0	80020
1980-03-18 10:00	MST	T	9		1.0	9.0	80020
1980-04-16 08:30	MST	T	9		9.0	13.0	80020
1980-05-27 15:00	MDT	T	9		14.0	22.0	80020
1980-06-17 11:15	MDT	T	9		17.0	21.0	80020
1980-07-15 10:15	MDT	T	9		19.0	21.0	80020
1980-08-14 10:30	MDT	T	9		19.0	17.5	80020
1980-09-10 10:30	MDT	T	9		16.0	19.0	80020
1980-10-02 14:00	MDT	T	9		8.0	23.0	80020
1980-11-05 11:15	MST	T	9		7.5	16.0	80020
1980-12-10 11:00	MST	T	9		0.5	8.0	80020
1981-01-09 10:30	MST	T	9		1.0	4.0	80020
1981-02-19 10:00	MST	T	9		1.0	4.0	80020

1981-03-18 10:15	MST	T	9		5.0	9.0	80020
1981-04-09 11:00	MST	T	9		6.5	12.0	80020
1981-05-13 14:30	MDT	T	9		8.0	12.0	80020
1981-05-19 10:30	MDT	T	9		12.0	15.0	80020
1981-07-15 11:15	MDT	T	9		21.5	23.5	80020
1981-08-12 10:15	MDT	T	9		21.0	21.5	80020

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample, Code	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)	Agency ana- lyzing sample, code (00028)
1981-09-23 10:15	MDT	T	9		13.0	15.0	80020
1982-06-11 09:20	MDT	T	9	USGS- WRD	15.0	13.0	1028
1982-06-28 12:15	MDT	T	9	USGS- WRD	21.0	22.0	1028
1982-08-03 14:10	MDT	T	9	USGS- WRD	22.0	24.0	1028
1982-09-30 12:35	MDT	T	9	USGS- WRD	8.0	8.0	1028
1982-11-08 11:15	MST	T	9	USGS- WRD	1.5	1.0	1028
1982-12-21 11:15	MST	T	9	USGS- WRD	0.0	2.0	1028
1983-02-02 09:55	MST	T	9	USGS- WRD	0.0	7.0	1028
1983-03-16 08:35	MST	T	9	USGS- WRD	5.0	0.0	1028
1983-05-04 08:35	MDT	T	9	USGS- WRD	11.0	8.0	1028
1983-06-07 08:30	MDT	T	9	USGS- WRD	17.0	13.0	1028
1983-06-14 16:45	MDT	T	9	USGS- WRD	18.0	23.5	1028
1983-06-16 09:30	MDT	T	9	USGS- WRD	18.0	15.0	1028
1983-07-13 08:30	MDT	T	9	USGS- WRD	20.0	21.5	1028

1983-08-24 09:40	MDT	T	9	USGS- WRD	20.0	17.0	1028
1983-10-18 14:40	MDT	T	9	USGS- WRD	7.0	6.5	1028
1983-11-09 11:50	MST	T	9	USGS- WRD	4.0	4.0	1028
1983-12-29 14:20	MST	T	9	USGS- WRD	0.5	-8.0	1028
1984-02-02 11:55	MST	T	9	USGS- WRD	1.0	9.0	1028
1984-03-15 14:10	MST	T	9	USGS- WRD	4.0	8.0	1028
1984-04-27 12:05	MST	T	9	USGS- WRD	5.0	4.0	1028
1984-05-18 10:55	MDT	T	9	USGS- WRD	8.5	18.0	1028
1984-05-23 14:30	MDT	T	9	USGS- WRD	15.5		1028
1984-06-07 11:40	MDT	T	9	USGS- WRD	15.0	14.0	1028
1984-07-19 11:45	MDT	T	9	USGS- WRD	23.0	26.0	1028
1984-08-27 13:35	MDT	T	9	USGS- WRD	21.0	31.0	1028
1984-10-09 13:50	MDT	T	9	USGS- WRD	14.0	21.0	1028
1984-11-13 15:10	MST	T	9	USGS- WRD	3.0	8.0	1028
1985-01-08 15:30	MST	T	9	USGS- WRD	0.5	-5.0	1028
1985-02-19 14:20	MST	T	9	USGS- WRD	0.5	7.0	1028
1985-03-19 16:50	MST	T	9	USGS- WRD	1.0	12.0	1028
1985-04-10 14:45	MST	T	9	USGS- WRD	12.0	21.0	1028
1985-05-15 14:30	MDT	T	9	USGS- WRD	16.0	20.0	1028
1985-06-24 16:00	MDT	T	9	USGS- WRD	19.0	21.0	1028
1985-07-29 13:45	MDT	T	9	USGS- WRD	17.5	14.5	1028
1985-08-08 09:00	MDT	T	9	USGS- WRD	18.5	15.0	1028
1985-09-26 09:30	MDT	T	9	USGS- WRD	8.0	9.5	1028
1985-11-07 10:35	MST	T	9	USGS- WRD	3.0	1.0	1028
1985-12-17 14:50	MST	T	9	USGS- WRD	0.0	7.0	1028
1986-01-29 15:25	MST	T	9	USGS- WRD	0.0	0.0	1028

1986-02-28 12:00	MST	T	9	USGS- WRD	3.5	16.5	1028
1986-04-23 15:55	MST	T	9	USGS- WRD	15.5	15.0	1028
1986-06-12 11:30	MDT	T	9	USGS- WRD	19.0	14.5	1028
1986-07-24 15:25	MDT	T	9	USGS- WRD	25.0	30.0	1028
1986-09-02 14:35	MDT	T	9	USGS- WRD	19.0	19.5	1028
1986-10-15 15:00	MDT	T	9	USGS- WRD	12.0	20.0	1028
1986-11-17 13:30	MST	T	9	USGS- WRD	0.0	4.5	1028
1986-12-31 10:30	MST	T	9	USGS- WRD	0.0	5.0	1028
1987-02-19 15:45	MST	T	9	USGS- WRD	2.0	7.0	1028
1987-04-03 13:35	MST	T	9	USGS- WRD	12.0	18.0	1028

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample, Code	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)	Agency ana- lyzing sample, code (00028)
1987-05-20 11:00	MDT	T	9	USGS- WRD	11.0	4.0	1028
1987-07-01 16:15	MDT	T	9	USGS- WRD	25.0	25.5	1028
1987-08-18 10:25	MDT	T	9	USGS- WRD	16.0	14.0	1028
1987-10-01 14:15	MDT	T	9	USGS- WRD	15.5	24.5	1028
1987-11-12 16:00	MST	T	9	USGS- WRD	7.0	14.0	1028
1988-01-14 14:45	MST	T	9	USGS- WRD	0.5	7.0	1028
1988-02-17 15:00	MST	T	9	USGS- WRD	0.5	10.0	1028
1988-03-29 17:20	MST	T	9	USGS- WRD	6.0	4.0	1028

1988-05-12 11:45	MDT	T	9	USGS- WRD	19.5	30.0	1028
1988-06-23 13:45	MDT	T	9	USGS- WRD	28.0	33.0	1028
1988-07-12 11:10	MDT	T	9	USGS- WRD	22.0	24.5	1028
1988-07-27 14:00	MDT	T	9	USGS- WRD	25.0	26.0	1028
1988-08-17 16:15	MDT	T	9	USGS- WRD	25.5	33.0	1028
1988-08-24 12:30	MDT	T	9	USGS- WRD	19.0	30.0	1028
1988-10-05 13:40	MDT	T	9	USGS- WRD	15.0	22.0	1028
1988-11-08 16:30	MST	T	9	USGS- WRD	5.0	7.0	1028
1988-12-22 11:25	MST	T	9	USGS- WRD	1.0	2.0	1028
1989-02-14 12:30	MST	T	9	USGS- WRD	0.0	2.0	1028
1989-03-28 11:20	MST	T	9	USGS- WRD	6.5	12.0	1028
1989-05-18 13:30	MDT	T	9	USGS- WRD	19.0	20.5	1028
1989-06-26 09:20	MDT	T	9	USGS- WRD	15.5	14.0	1028
1989-08-07 09:50	MDT	T	9	USGS- WRD	20.0	21.0	1028
1989-09-18 11:10	MDT	T	9	USGS- WRD	15.0	13.5	1028
1989-10-03 09:50	MDT	T	9	USGS- WRD	6.5	4.0	1028
1989-10-24 15:10	MDT	T	9	USGS- WRD	10.0	15.0	1028
1989-12-12 12:25	MST	T	9	USGS- WRD	0.0	1.0	1028
1990-01-29 12:30	MST	T	9	USGS- WRD	0.0	-6.5	1028
1990-03-12 09:35	MST	T	9	USGS- WRD	4.0	2.0	1028
1990-04-30 13:55	MDT	T	9	USGS- WRD	9.0	5.5	1028
1990-05-14 15:00	MDT	T	9	USGS- WRD	16.0	12.0	1028
1990-06-04 13:40	MDT	T	9	USGS- WRD	17.0	22.5	1028
1990-08-06 09:25	MDT	T	9	USGS- WRD	21.0	23.0	1028
1990-08-23 08:15	MDT	T	9	USGS- WRD	19.0	18.0	1028
1990-09-20 11:30	MDT	T	9	USGS- WRD	15.0	16.5	1028

1990-11-14 15:20	MST	T	9	USGS- WRD	6.0	11.0	1028
1991-02-06 16:30	MST	T	9	USGS- WRD	0.0	11.0	1028
1991-03-15 10:50	MST	T	9	USGS- WRD	4.0	4.5	1028
1991-05-06 09:45	MDT	T	9	USGS- WRD	10.0	13.0	1028
1991-05-23 10:45	MDT	T	9	USGS- WRD	17.5	22.0	1028
1991-06-18 10:15	MDT	T	9	USGS- WRD	17.0	15.0	1028
1991-08-13 13:10	MDT	T	9	USGS- WRD	24.0		1028
1991-10-01 09:25	MDT	T	9	USGS- WRD	13.5	18.0	1028
1991-11-15 12:25	MST	T	9	USGS- WRD	0.0		1028
1991-12-27 09:45	MST	T	9	USGS- WRD	0.0	-3.0	1028
1992-01-31 09:00	MST	T	9	USGS- WRD	0.0	3.0	1028
1992-03-02 09:45	MST	T	9	USGS- WRD	5.0	6.5	1028
1992-04-06 12:55	MDT	T	9	USGS- WRD	10.5	11.0	1028
1992-05-12 14:45	MDT	T	9	USGS- WRD	15.0	12.5	1028
1992-06-12 12:30	MDT	T	9	USGS- WRD	25.0	28.5	1028
1992-06-21 09:10	MDT	T	9	USGS- WRD	20.5	23.5	1028

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample Code	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)	Agency ana- lyzing sample, code (00028)
1992-06-23 08:55	MDT	T	9	USGS- WRD	22.0	18.0	1028
1992-08-19 11:35	MDT	T	9	USGS- WRD	21.0	29.0	1028

1992-10-05 09:30	MDT	T	9	USGS- WRD	10.5	10.0	1028
1992-11-17 10:00	MST	T	9	USGS- WRD	2.5	7.0	1028
1993-01-05 09:25	MST	T	9	USGS- WRD	0.0	-17.0	1028
1993-03-01 12:25	MST	T	9	USGS- WRD	0.0	12.5	1028
1993-03-22 13:10	MST	T	9	USGS- WRD	6.0	15.0	1028
1993-05-03 10:05	MDT	T	9	USGS- WRD	12.5	11.0	1028
1993-05-19 10:55	MDT	T	9	USGS- WRD	16.5		1028
1993-06-07 10:20	MDT	T	9	USGS- WRD	14.5	11.5	1028
1993-07-15 10:20	MDT	T	9	USGS- WRD	16.0		1028
1993-08-16 09:10	MDT	T	9	USGS- WRD	20.0	18.5	1028
1993-11-17 09:00	MST	T	9	USGS- WRD	1.0		1028
1993-12-21 09:30	MST	T	9	USGS- WRD	0.5		1028
1994-02-10 12:20	MST	T	9	USGS- WRD	0.5		1028
1994-03-21 08:50	MST	T	9	USGS- WRD	4.0		1028
1994-06-15 12:25	MDT	T	9	USGS- WRD	18.5		1028
1994-07-22 08:35	MDT	T	9	USGS- WRD	20.0		1028
1994-09-01 13:00	MDT	T	9	USGS- WRD	15.0		1028
1994-10-07 13:20	MDT	T	9	USGS- WRD	9.5	12.0	1028
1994-11-22 10:20	MST	T	9	USGS- WRD	0.0	0.0	1028
1995-01-05 11:10	MST	T	9	USGS- WRD	0.0		1028
1995-03-30 09:00	MST	T	9	USGS- WRD	3.0	2.5	1028
1995-05-16 10:10	MDT	T	9	USGS- WRD	13.0	12.0	1028
1995-07-05 12:55	MDT	T	9	USGS- WRD	18.5		1028
1995-09-06 10:15	MDT	T	9	USGS- WRD	18.5		1028
1995-10-10 13:25	MDT	T	9	USGS- WRD	9.5		1028
1995-11-30 09:10	MST	T	9	USGS- WRD	3.5		1028

1996-01-12 10:45	MST	T	9	USGS- WRD	0.0	10.0	1028
1996-02-12 12:30	MST	T	9	USGS- WRD	0.0	14.0	1028
1996-05-15 11:25	MDT	T	9	USGS- WRD	15.5	18.0	1028
1996-06-05 14:35	MDT	T	9	USGS- WRD	19.0		1028
1996-07-18 12:45	MDT	T	9	USGS- WRD	23.5	35.0	1028
1996-09-05 12:50	MDT	T	9	USGS- WRD	17.5	24.5	1028
1996-11-05 13:20	MST	T	9	USGS- WRD	5.5	7.0	1028
1997-05-29 12:00	MDT	T	9	USGS- WRD	16.0	17.0	1028
1997-08-13 12:02	MDT	T	9	USGS- WRD	20.0	23.0	1028
1997-09-10 08:48	MDT	T	9	USGS- WRD	17.5	18.0	1028
1997-12-17 14:05	MST	T	9	USGS- WRD	0.5	9.5	1028
1998-03-16 15:00	MST	T	9	USGS- WRD	4.0	15.0	1028
1998-05-19 17:30	MDT	T	9	USGS- WRD	16.5	17.5	1028
1998-08-24 18:10	MDT	T	9	USGS- WRD	22.5	25.0	1028
1998-09-30 08:15	MDT	T	9	USGS- WRD	13.5	10.0	1028
1998-11-13 10:15	MST	T	9	USGS- WRD	3.0	2.0	1028
1999-03-15 12:10	MST	T	9	USGS- WRD	6.5	16.5	1028
1999-04-26 10:20	MDT	T	9	USGS- WRD	12.5	12.0	1028
1999-06-14 10:35	MDT	T	9	USGS- WRD	18.0	15.0	1028
1999-08-06 09:35	MDT	T	9	USGS- WRD	22.0	21.0	1028
1999-10-04 09:45	MDT	T	9	USGS- WRD	8.0	9.0	1028
2000-01-26 14:30	MST	T	9	USGS- WRD	0.0		1028

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample. Code	Temper-	Temper-	Agency ana-
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					ature, water, deg C (00010)	ature, air, deg C (00020)	lyzing sample, code (00028)
2000-03-20 10:00	MST	T	9	USGS- WRD	2.5	5.0	1028
2000-04-06 09:52	MDT	T	9	USGS- WRD	8.0	7.5	1028
2000-04-27 10:15	MDT	T	9	USGS- WRD	13.0	12.0	1028
2000-06-14 09:25	MDT	T	9	USGS- WRD	16.5	17.0	1028
2000-08-02 15:10	MDT	T	9	USGS- WRD	25.5	26.5	1028
2000-10-03 09:05	MDT	T	9	USGS- WRD	10.5	5.0	1028
2000-11-28 13:05	MST	T	9	USGS- WRD	0.0	10.0	1028
2001-01-24 10:40	MST	T	9	USGS- WRD	0.0	-5.0	1028
2001-03-22 13:25	MST	T	9	USGS- WRD	6.5	11.0	1028
2001-05-01 09:45	MDT	T	9	USGS- WRD	13.0	13.0	1028
2001-06-19 09:00	MDT	T	9	USGS- WRD	15.5	13.0	1028
2001-10-03 08:10	MDT	T	9	USGS- WRD	7.0	3.5	1028
2001-11-13 11:10	MST	T	9	USGS- WRD	3.0	7.5	1028
2002-01-08 12:15	MST	T	9	USGS- WRD	0.0	10.0	1028
2002-04-16 12:10	MDT	T	9	USGS- WRD	8.0	10.0	1028
2002-05-29 10:00	MDT	T	9	USGS- WRD	18.5	15.0	1028
2002-07-23 10:25	MDT	T	9	USGS- WRD	20.0	17.5	1028
2002-08-26 08:20	MDT	T	9	USGS- WRD	18.0	14.0	1028
2002-12-12 11:35	MST	K	9	USGS- WRD	0.0	-5.0	1028
2003-02-18 11:10	MST	K	9	USGS- WRD	0.0	1.0	1028
2003-03-25 09:32	MST	K	9	USGS- WRD	4.0	10.0	1028
2003-05-21 10:45	MST	K	9	USGS- WRD	14.0	16.5	1028

2003-06-12 08:37	MST	K	9	USGS- WRD	16.5	18.0	1028
2003-07-02 09:48	MST	K	9	USGS- WRD	23.0	24.0	1028
2003-08-12 10:04	MST	K	9	USGS- WRD	22.0	24.0	1028
2003-09-24 10:02	MST	K	9	USGS- WRD	12.5	14.0	1028
2003-10-29 08:50	MST	K	9	USGS- WRD	3.0		1028
2003-11-05 09:20	MST	K	9	USGS- WRD	0.0	-7.0	1028
2003-12-09 14:10	MST	K	9	USGS- WRD	0.0		1028
2004-01-21 10:30	MST	K	9	USGS- WRD	0.0		1028
2004-01-22 11:25	MST	K	9	USGS- WRD	0.0	-1.0	1028
2004-03-04 09:30	MST	K	9	USGS- WRD	0.0		1028
2004-03-15 09:20	MST	K	9	USGS- WRD	3.5	3.0	1028
2004-03-22 10:30	MST	K	9	USGS- WRD	7.0	18.0	1028
2004-03-29 14:40	MST	K	9	USGS- WRD	13.5	20.0	1028
2004-03-29 15:30	MST	K	9	USGS- WRD	1.0		1028
2004-04-05 16:00	MST	K	9	USGS- WRD	8.0		1028
2004-04-20 10:40	MST	K	9	USGS- WRD	8.5		1028
2004-05-04 10:36	MST	K	9	USGS- WRD	14.0	20.0	1028
2004-05-12 15:00	MST	K	9	USGS- WRD	9.0	5.0	1028
2004-05-12 16:20	MST	K	9	USGS- WRD	8.5	10.0	1028
2004-05-27 07:50	MST	K	9	USGS- WRD	12.5		1028
2004-06-03 13:50	MST	K	9	USGS- WRD	17.5		1028
2004-06-08 11:00	MST	K	9	USGS- WRD	15.5	13.0	1028
2004-06-09 08:15	MST	K	9	USGS- WRD	12.5	12.0	1028
2004-06-15 13:25	MST	K	9	USGS- WRD	18.5	20.0	1028
2004-07-23 09:15	MST	K	9	USGS- WRD	19.5	22.0	1028
2004-07-23 10:30	MST	K	9	USGS- WRD	22.0	28.0	1028

2004-07-27 10:00	MST	K	9	USGS- WRD	22.0	22.0	1028
2004-09-02 16:40	MST	K	9	USGS- WRD	20.5		1028

Sample Datetime	Time datum	Time datum reliability code	Sample Medium Code	Agency Collecting Sample, Code	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)	Agency ana- lyzing sample, code (00028)
2004-09-08 08:45	MST	K	9	USGS- WRD	14.0	13.0	1028
2004-09-08 10:00	MST	K	9	USGS- WRD	16.0	17.0	1028
2004-11-01 14:25	MST	K	9	USGS- WRD	5.0	7.0	1028
2005-01-19 12:45	MST	K	9	USGS- WRD	0.5	15.0	1028
2005-03-04 13:15	MST	K	9	USGS- WRD	5.5	11.0	1028
2005-04-27 12:45	MST	K	9	USGS- WRD	10.5	2.0	1028
2005-10-11 14:05	MDT	K	9	USGS- WRD	10.5	17.0	
2005-12-20 15:00	MST	K	9	USGS- WRD	0.0	3.0	
2006-01-31 13:45	MST	K	9	USGS- WRD	1.0	10.0	
2006-03-23 14:45	MST	K	9	USGS- WRD	8.0	12.0	
2006-06-21 12:40	MST	K	9	USGS- WRD	20.5	24.0	
2006-08-03 08:00	MST	K	9	USGS- WRD	19.0	18.5	
2006-09-18 12:10	MST	K	9	USGS- WRD	12.0	18.0	
2006-11-02 13:50	MST	K	9	USGS- WRD	1.0	1.0	
2007-03-14 12:50	MST	K	9	USGS- WRD	8.0	6.0	
2007-03-27 11:57	MST	K	9	USGS- WRD	11.5	20.0	

2007-05-08 12:35	MST	K	9	USGS- WRD	18.0	25.0	
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Water Quality Remark Code	Description
<	Less than.
>	Greater than.
M	Presence verified but not quantified.
U	Analyzed for but not detected.

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Weather WMO code -41	Instantaneous dis- charge, cfs -61	Gage height, feet -65	Turbid- ity, JTU -70	Specific conduc- tance, wat unf uS / cm 25 deaC -95	Hydro- gen ion, water, fltrd, calcd, mg / L -191	Dis- solved oxygen, mg / L -300	Dis- solved oxygen, percent of sat- uration -301	BOD, water, unfltrd 5 day, 20 deaC mg / L -310	pH, water, unfltrd field, std units -400
1	26		2	2180	0.00001	10.5	102	1.6	8.2
1	28		2	2350	0.00001	12.2	94	1.0	8.1
1	59		3	2340	0.00001	11.5	88	0.2	8.2
70	65		2	1950	0.00002	11.7	90	0.4	7.8
0.0	58		3	1850	0.00001	10.9	84	0.4	7.9
2	6200			530	0.00001	10.8	86	5.9	7.9
1	3520		900	817	0.00001	11.1	90	3.1	8.0
2	300		45	1850	M	10.1	99	1.1	8.4
2	946		90	900	0.00001	8.0	95	1.3	8.3
1	858		60	940	M	8.9	103	3.0	8.5
0.0	906		55	970	M	7.9	100	1.4	8.4
61	219		20	1420	M	8.3	102	0.7	8.4

1	341		35	1440	M	9.8	98	1.0	8.4
1	149			1680	0.00001	9.8	103		8.2
1	223			1410	0.00001	11.4	103		8.2
2	175			1690	0.00001	11.8	91		8.1
2	107			1750	0.00002	11.0	85		7.8
1	123			1530	0.00002	11.3	87		7.7
2	212			1420	0.00001	12.0	93		8.1
0.0	3390			796	0.00001	12.0	96	5.1	8.0
70	629			1840	0.00001	11.1	96		8.3
68	1010			1340	0.00001	9.9	94		8.3
1	307			1220	M	7.9	104		8.4
1	1960			870	0.00001	6.6	78		8.0
0.0	4470			678	0.00001	7.5	86	5.9	7.9
0.0	253			1270	0.00001	8.3	107		8.3
0.0	184			1380	M	8.3	100		8.5
1	98			1710	M	9.6	96		8.4
3	126			1710	M	12.1	99		8.5
1	140			1740	0.00001	12.3	97		8.3
73	57			1970	0.00001	11.5	91		8.1
73	116			1750	0.00001	12.1	95		8.1
2	177			1580	0.00001	11.9	95		8.1
0.0	170			2090	M	9.9	95		8.5
1	1210			1080	0.00001	7.5	82		8.3
0.0	1400			960	M	7.9	91		8.4
0.0	357			1040	M	7.6	91		8.5
1	182			1380	M	8.5	103		8.4
1	124			1360	M	8.5	96		8.4
0.0	61			1510	0.00001	9.5	89		8.3
0.0	74			1970	0.00001	10.5	98		8.3
2	39			2240	0.00001	11.8	92		8.1
1	97			1510	M	12.4	97		8.4
2	191			1360	M	12.3	97		8.4

10	74			1660	0.00001	11.3	99		8.3
2	51			2250	M	10.6	98		8.4
1	807			1780	0.00001	9.8	92		8.3
1	3920			920	0.00001	8.3	86		8.1
0.0	326			1320		7.8	100		
0.0	347			1280	M	7.9	101		8.6

Weather WMO code (00041)	Instantaneous dis-charge, cfs (00061)	Gage height, feet (00065)	Turbidity, JTU (00070)	Specific conductance, wat unf uS/cm 25 deaC (00095)	Hydrogen ion, water, fltrd, calcd, mg/L (00191)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	BOD, water, unfltrd 5 day, 20 deaC mg/L (00310)	pH, water, unfltrd field, std units (00400)
1	60			1600	M	9.3	99		8.4
	2580			1070					
	2030			934					
	433			1220					
	427			1420					
	111			2300					
	149			2120					
	187			1530					
	129			2030					
	77			1780					
	207			1550					
	500			1220					
	378			1080					
	396			1180					

	337			1200					
	101			1890					
	79			2000					
	27			2430					
	167			1800					
	109			2160					
	182			1200					
	484			1120					
	345			890					
	281			1200					
	194			1200					
	209			1200					
	44			2000					
	42			2160					
	18			2400					
	5.9			3100					
	111			2080					
	60			2360					
	197			1460					
	186			1300					
	5.2			2150					
	29			2150					
	18			2350					
	33			2200					
	22			2450					
	37			2500					

	1420			630					
	62			2900					
	530			1100					
	172			1280					
	323			1400					
	65			2100					
	48			2900					
	36			2800					
	67			2340					
	53			2700					

Weather WMO code (00041)	Instantaneous dis- charge, cfs (00061)	Gage height, feet (00065)	Turbidity, JTU (00070)	Specific conductance, wat unf uS/cm 25 deaC (00095)	Hydro- gen ion, water, fltrd, calcd, mg/L (00191)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	BOD, water, unfltrd 5 day, 20 deaC mg/L (00310)	pH, water, unfltrd field, std units (00400)
	211			1380					
	211			1200					
	154			1430					
	46			1800					
	75			1950					
	11			3250					
	26			2400					
	35			2550					

	90			3400					
	146			1350					
	33			950					
	12			2120					
	28			1710					
	13			1900					
	3.0			2600					
	8.6			2850					
	11			2680					
	7.2			3000					
	260			2300					
	120			1970					
	78			1960					
	24			1920					
	41			2000					
	67			1610					
	32			2020					
	24			2580					
	32			2250					
	55			2350					
	22			3100					
	4.6			3550					
	366			1040					
	240			1160					
	268			1150					
	38			2060					

	27	0.92		2350					
	22	1.25		2620					
	34	0.96		2360					
	62	1.17		2600					
	1980	5.77		753					
	640	3.31		930					
	199	2.02		1190					
	50	1.25		1730					
	58	1.33		2150					
	26	1.09		2730					
	40	1.29		2150					
	52	1.16		2130					
	26	0.90		2620					
	193	1.95		1220					
	2.5	0.48		2150					
	887	4.02		857					

Weather WMO code (00041)	Instantaneous dis- charge, cfs (00061)	Gage height, feet (00065)	Turbidity, JTU (00070)	Specific conductance, wat unf uS/cm 25 deaC (00095)	Hydrogen ion, water, fltrd, calcd, mg/L (00191)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	BOD, water, unfltrd 5 day, 20 deaC mg/L (00310)	pH, water, unfltrd field, std units (00400)
	268	2.19		1170					
	108	1.48		1340					

	45	1.07		1740					
	48	1.09		2050					
	23	1.49		2220					
	27	1.65		2050					
	188	1.90		1800					
	36	0.99		2440					
	359	2.49		727					
	183	1.85		1390					
	721	3.36		1030					
	459	2.71		1040					
	227	2.01		1080					
	150	2.18		1030					
	81	2.20		1380					
	138	1.55		1360					
	148	1.59		1420					
	267	2.16		930					
	179	1.79		1120					
	54	1.07		1050					
	42	1.32		1700					
	20	1.50		2230					
	62	1.07		2320					
	1210	4.45		902					
	532	2.85		1010					
	146	1.72		1280					
	171	1.75		890					
	108	1.43		1520					

	107	2.28		1780					
	230	2.24		100					
	273	2.19		1350					
	1220	4.38		707					
	300	2.23		1100					
	161	1.76		1280					
	85	1.42		1490					
	2640	6.95		747					
	314	2.84		1140					
	308	2.79		1110					
	239	3.15		1380					
	181	2.14		1700					
	109	1.79		1400					
	251	2.35		1110					
	92	1.61		1470					
	76	1.57		1550					
	102	1.59		1580					
	52	1.24		2520					
	158	1.89		1070					
	197	2.09		1000					
	60	1.40		1350					
	18	1.13		2290					

	Instantaneous			Specific conductance,	Hydrogen ion, water,	Dis-	Dis- solved oxygen,	BOD, water, unfltrd	pH, water, unfltrd
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Weather WMO code (00041)	dis- charge, cfs (00061)	Gage height, feet (00065)	Turbid- ity, JTU (00070)	wat unf uS/cm 25 deaC (00095)	fltrd, calcd, mg/L (00191)	solved oxygen, mg/L (00300)	percent of sat- uration (00301)	5 day, 20 deaC mg/L (00310)	field, std units (00400)
	24	0.97		2030					
	11	0.79		2360					
	0.41	0.39		2100					
	149	1.81		1140					
	11	0.74		1400					
	3.4	1.00		2040					
	8.3	0.91		2300					
	13	1.13		2150					
	26	0.92		1720					
	1.8	0.50		2690					
	3.0	0.58		1900					
	0.14	0.76		2210					
	5.5	1.10		2390					
	8.2	0.96		2630					
	1.6	0.50		2130					
	70	1.32		1230					
	5.4	0.67		1940					
	2.0	0.52		2140					
	8.4	0.63		2510					
	6.4	0.82		2480					
	22	0.86		1390					
	136	1.70		1200					

	437	2.67		990					
	128	1.68		1120					
	8.3	0.67		2130					
	8.7	0.68		1640					
	4.8	2.22		3480					
	46	1.37		1050					
	4.0	2.19		4450					
	2.8	2.17		3350					
	12	0.98		2050					
	2.8	1.59		3120					
	22	0.93		1080					
	7.3	1.98		1400					
	1.9	0.43		1890					
	142	6.03		1070					
	136	3.98		980					
	34	2.82		1780					
	11	2.02		1560					
	168	1.96		1160					
	180	3.12		1130					
	84	3.39		1770					
	130	4.06		1200					
	31	0.91		1410					
	41	2.40		1360					
	251	2.27		885					
	36	2.36		1290					
	40	0.97		1390					

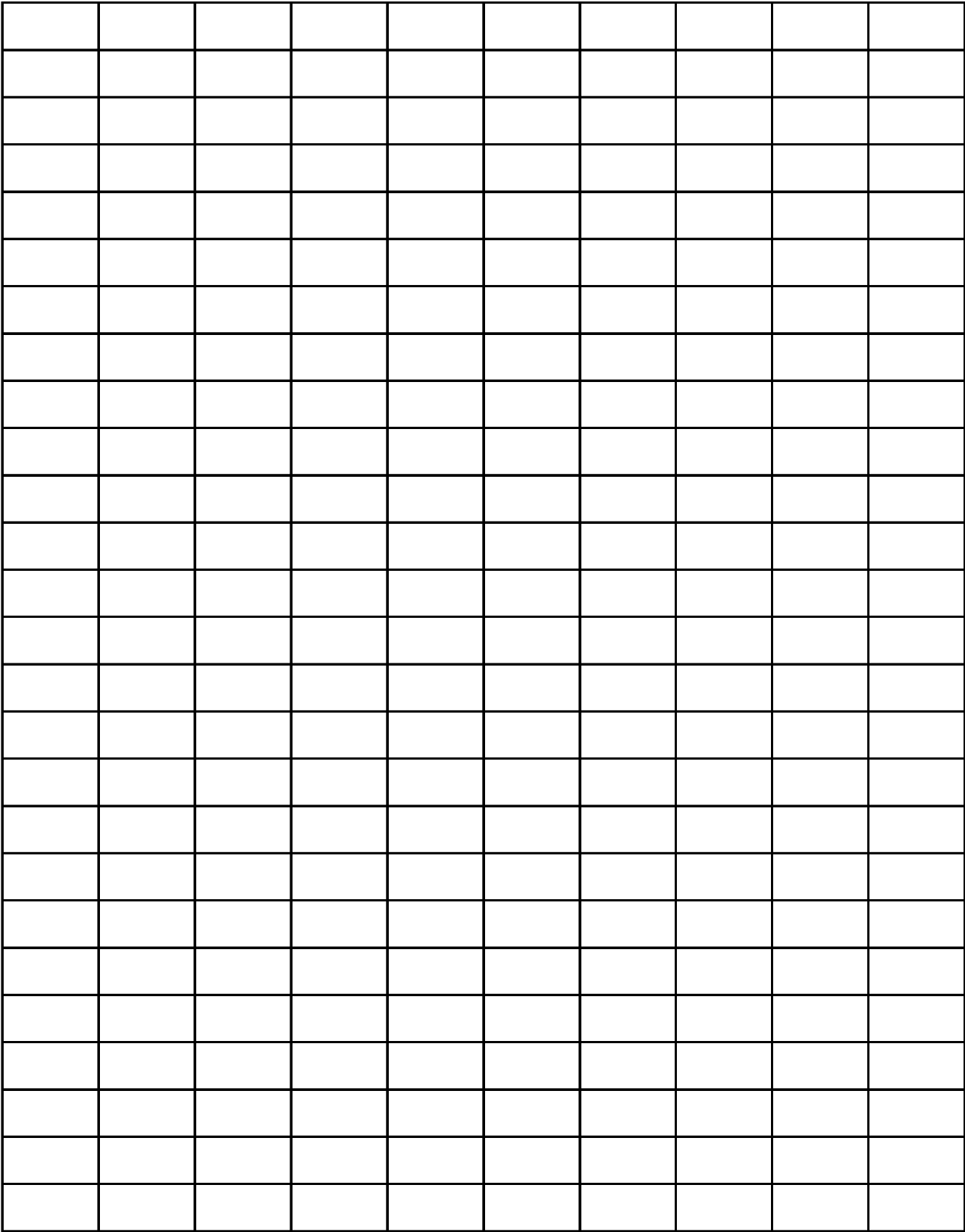
	4.4	2.11		2330					
	3.2	2.06		2640					

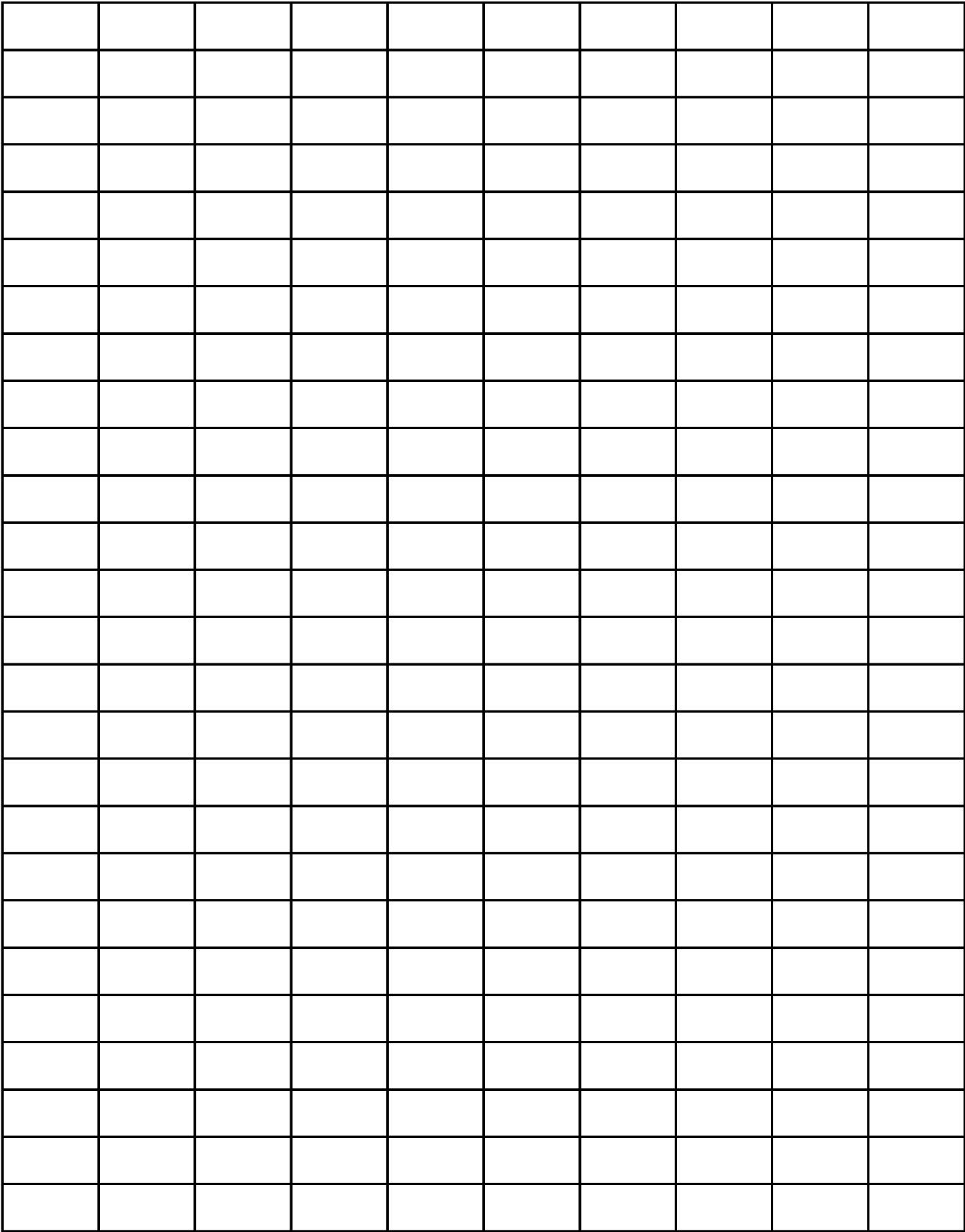
Weather WMO code (00041)	Instantaneous discharge, cfs (00061)	Gage height, feet (00065)	Turbidity, JTU (00070)	Specific conductance, wat unf uS/cm 25 deaC (00095)	Hydrogen ion, water, fltrd, calcd, mg/L (00191)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	BOD, water, unfltrd 5 day, 20 deaC mg/L (00310)	pH, water, unfltrd field, std units (00400)
	3.9	1.94		1620					
	4.1	0.49		1770					
	48	1.16		1340					
	12	0.75		2250					
	9.6	0.63		1790					
	73	1.30		1460					
	104	1.61		1120					
	21	1.23		1850					
	31	0.97		963					
	25	0.86		1680					
	151	1.83		1120					
	111	1.66		1020					
	56	1.13		1210					
	33	1.00		1290					
	54	1.06		1550					
	7.9	0.47		1880					

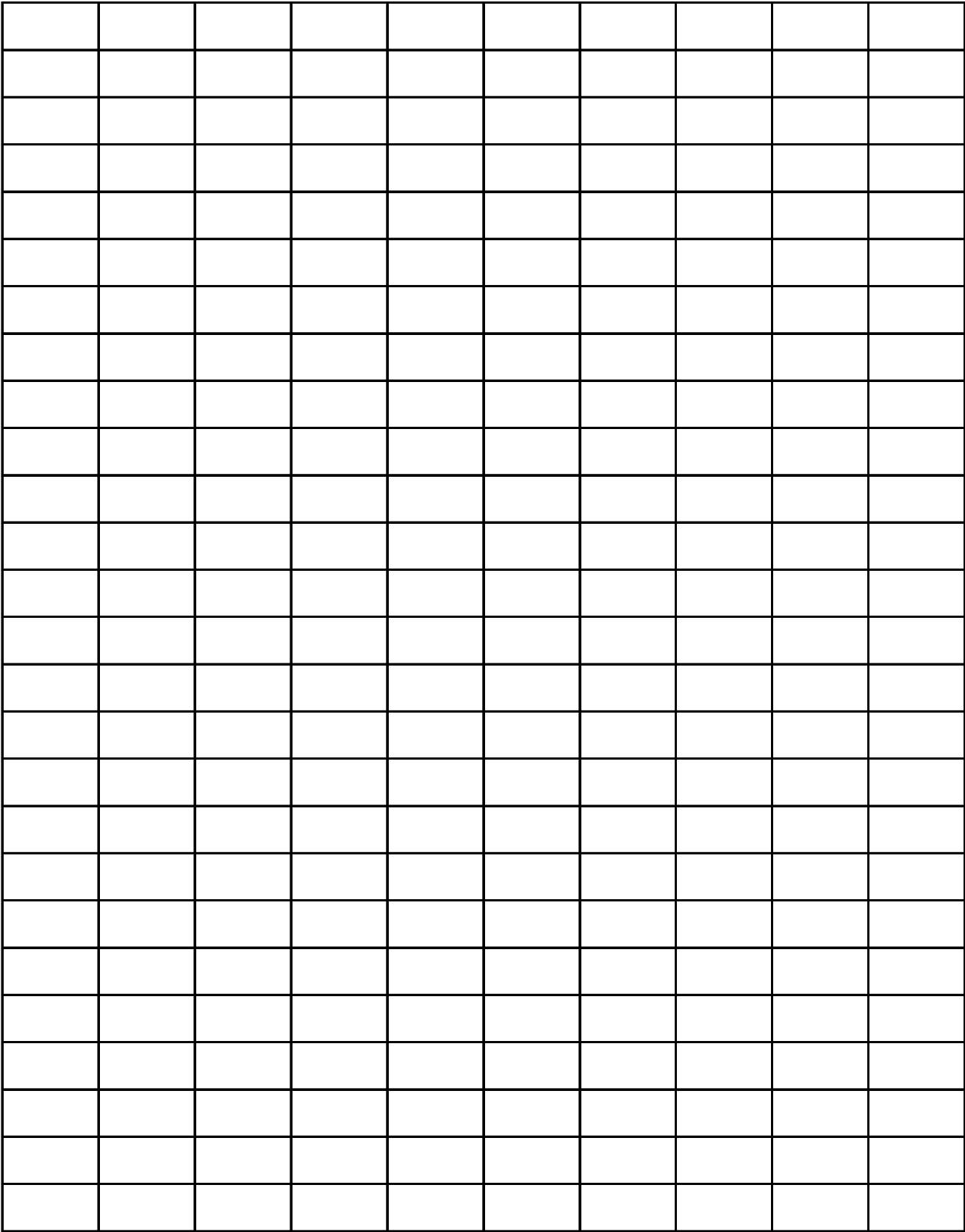
	50	1.00		1290					
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pH, water, unfltrd lab, std units -403	Carbon dioxide water, unfltrd mg / L -405	ANC, wat unf fixed end pt, field, mg / L as CaCO3 -410	Bicar- bonate, wat unf fixed end pt, field, mg / L -440	Carbon- ate, wat unf fixed end pt, field, mg / L -445	Total nitro- gen, water, unfltrd mg / L -600	Organic nitro- gen, water, unfltrd mg / L -605	Ammon ia water, unfltrd mg / L as N -610	Ammon ia + org-N, water, unfltrd mg / L as N -625	Nitrate + nitrite water unfltrd mg / L as N -630
	3.4	280	340	0.0	0.30	0.24	0.010	0.25	0.050
	5.6	360	440	0.0	0.27	0.17	0.050	0.22	0.050
	4.0	330	400	0.0	0.55	0.09	0.140	0.23	0.320
	10	330	400	0.0	0.48	0.13	0.070	0.20	0.280
	6.4	260	320	0.0			0.160		0.290
	2.6	130	160	0.0	0.84	0.40	0.140	0.54	0.300
	2.2	290	350	0.0	0.82	0.67	0.030	0.70	0.120
	2.0	210	250	0.0	0.66	0.58	0.060	0.64	0.020
	1.3	210	250	5	0.48	0.43	0.010	0.44	0.040
	1.8	230	270	5	0.62	0.59	0.030	0.62	<u>< 0.100</u>
	1.8	230	260	9	0.48	0.44	0.020	0.46	0.020

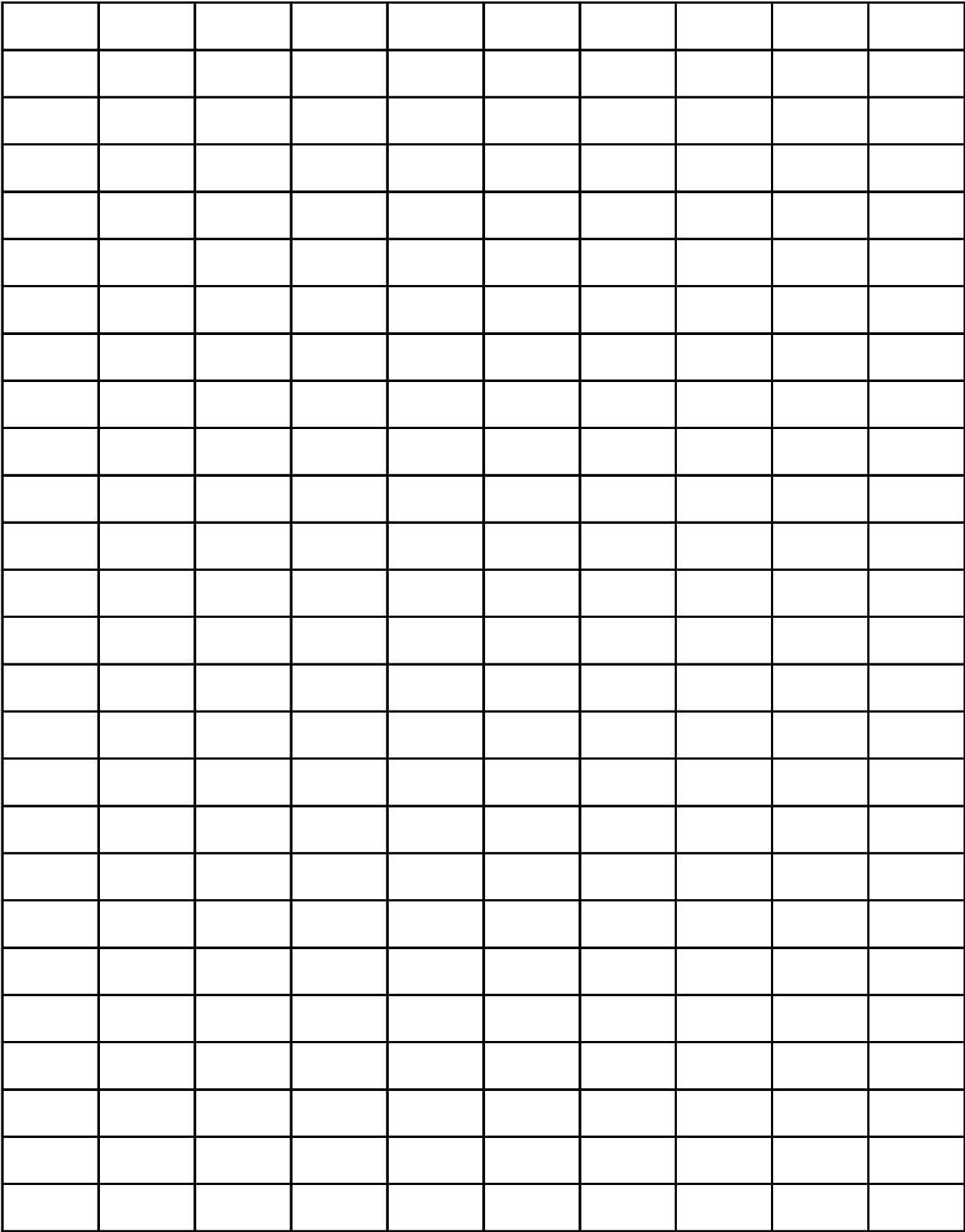
	1.7	220	260	4	0.60	0.57	0.010	0.58	0.020
	3.2	260			0.29	0.22	0.020	0.24	0.050
	3.2	260			0.28	0.22	0.010	0.23	0.050
	4.6	300			0.83	0.38	0.020	0.40	0.430
	6.7	220			0.84	0.37	0.030	0.40	0.440
	10	270			1.1	0.48	0.080	0.56	0.490
	4.0	260			0.88	0.37	0.060	0.43	0.450
	2.1	110			1.1	0.57	0.150	0.72	0.390
	3.0	310			0.79	0.46	0.030	0.49	0.300
	2.2	230			1.1	0.95	0.010	0.96	0.100
	1.8	230			0.82	0.78	0.020	0.80	0.020
	3.3	170			3.0	2.7	0.080	2.8	0.190
	3.9	160			1.1	0.83	0.100	0.93	0.170
	2.2	230			0.45	0.41	0.010	0.42	0.030
	1.3	220			0.01	0.00	0.040	< 0.10	0.010
	2.0	260			0.50	0.42	0.010	0.43	0.070
	1.6	270			0.49	0.39	0.040	0.43	0.060
	2.9	300			0.75	0.40	0.030	0.43	0.320
	5.5	360			1.3	0.96	0.040	1.0	0.290
	4.7	310			1.1	0.62	0.040	0.66	0.390
	3.4	220			0.91	0.59	0.080	0.67	0.240
	1.7	280			0.78	0.73	0.040	0.77	0.010
	1.5	160			4.1	3.9	0.070	4.0	0.140
	1.4	190			3.5	3.4	0.030	3.4	0.110
	1.3	210			0.55	0.49	0.040	0.53	0.020
	1.8	240			0.74	0.72	0.020	0.74	0.000
	1.8	230			0.55	0.53	0.020	0.55	0.000
8.3	2.5	260			0.51	0.50	0.010	0.51	0.000
8.2	2.7				1.0	0.64	0.300	0.94	0.070
8.0	4.3	280			2.4	0.73	0.180	0.91	1.50
8.2	1.7	220			1.3	1.0	0.070	1.1	0.240
8.3	1.8	240			0.20	0.00	0.040	0.04	0.160







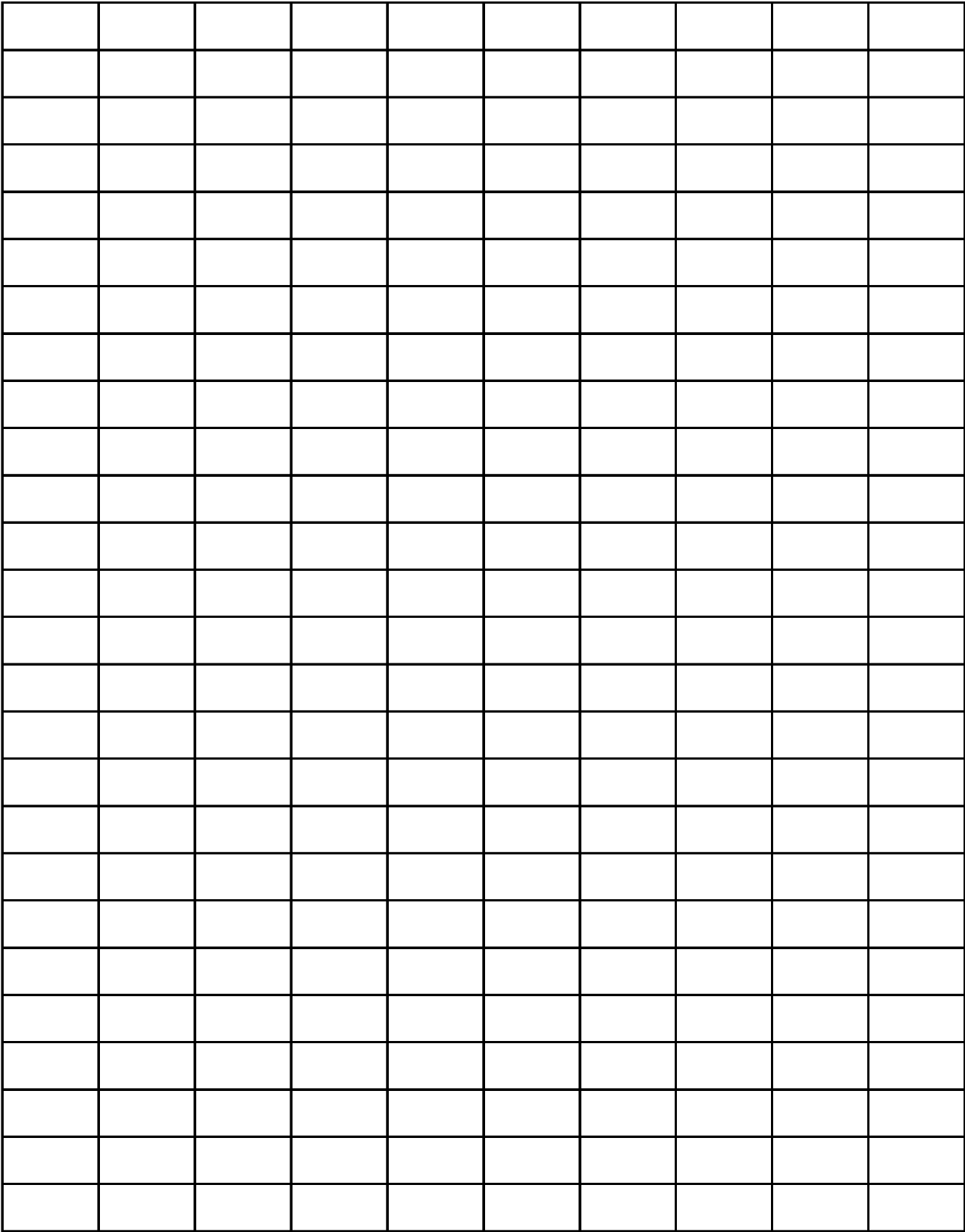
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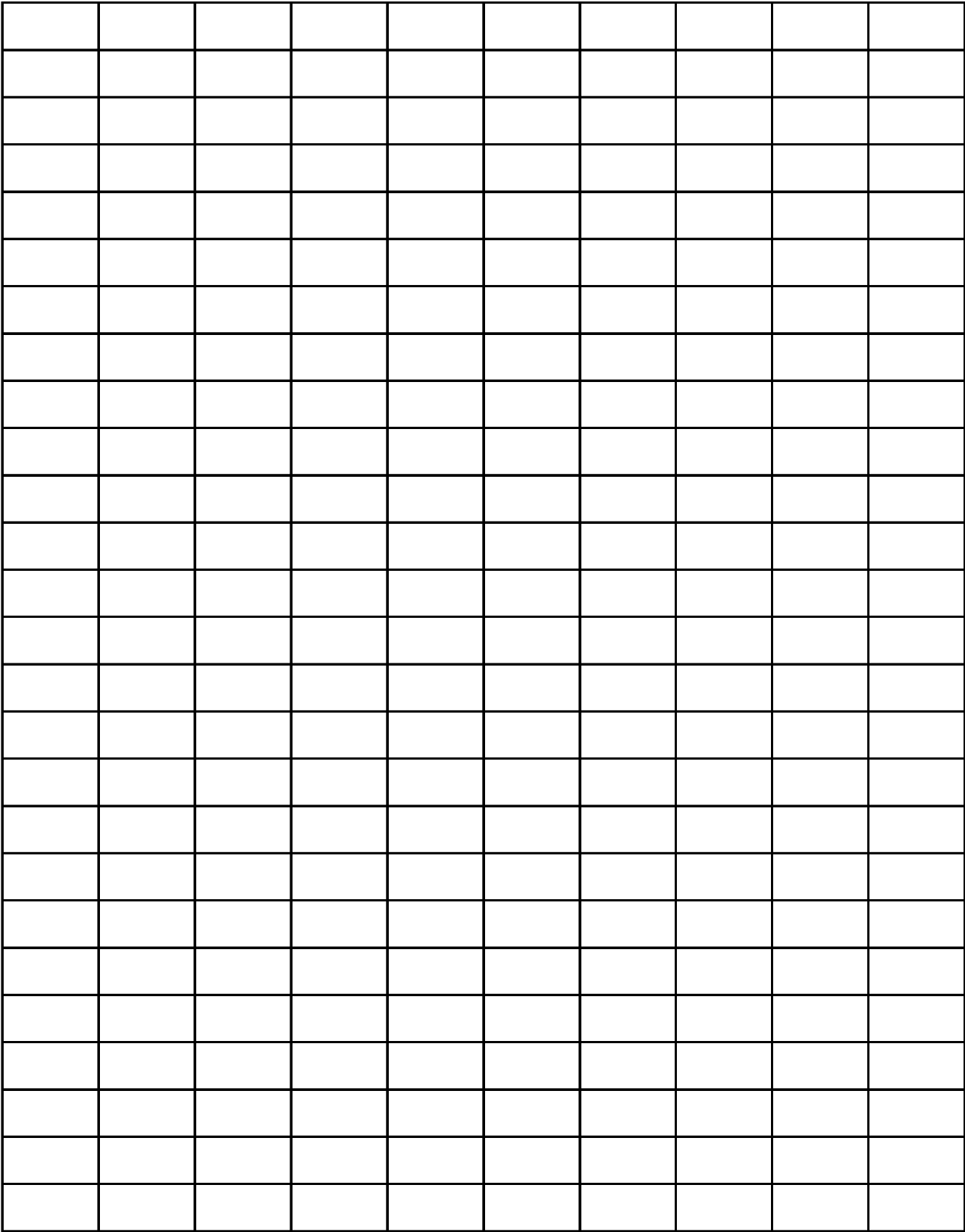


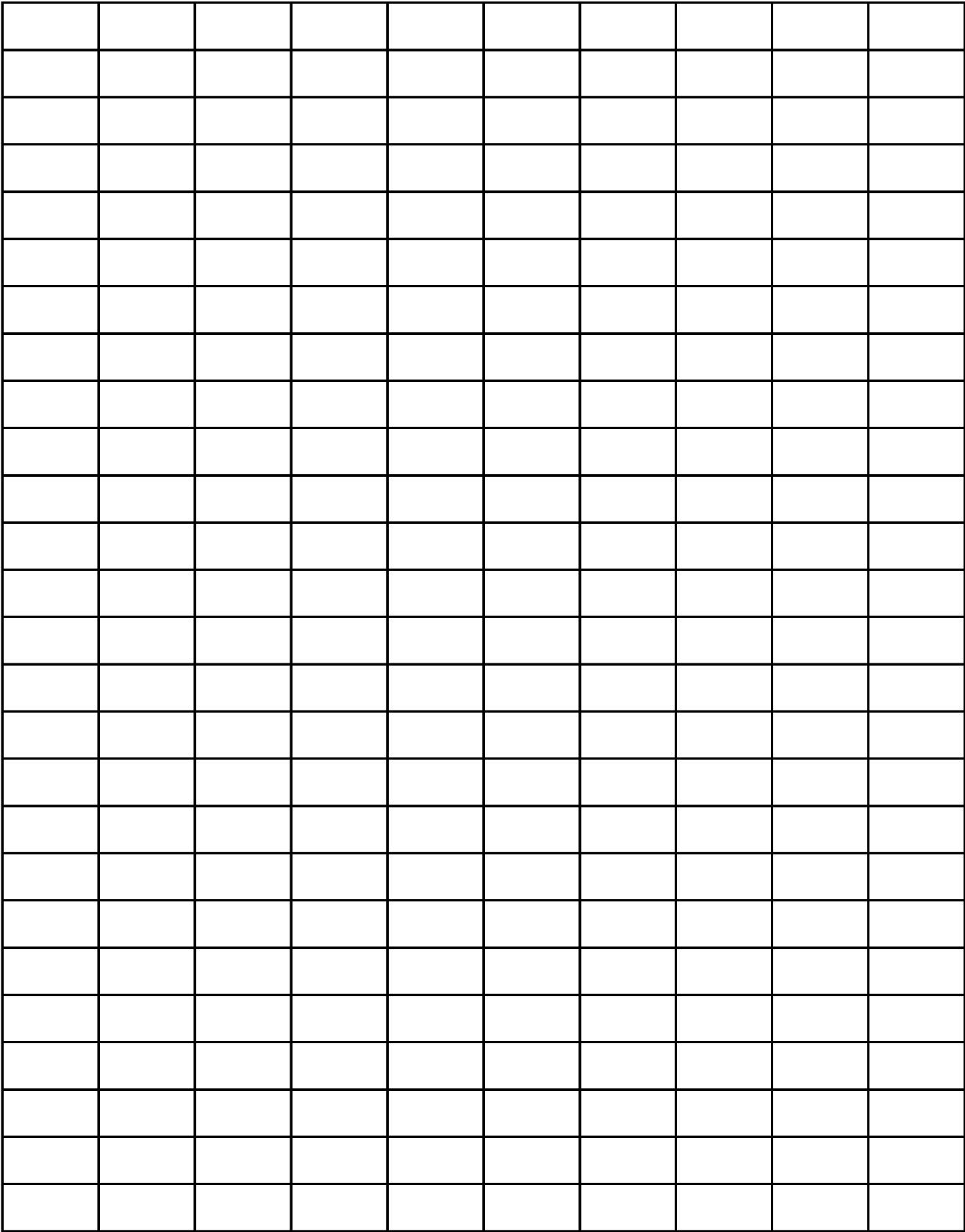
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Phosphate, water, unfltrd mg / L -650	Phosphorus, water, unfltrd mg / L -665	Organic carbon, water, unfltrd mg / L -680	Organic carbon, water, fltrd, mg / L -681	Inorganic carbon, water, unfltrd mg / L -685	Organic carbon, suspnd sediment total, mg / L -689	Total carbon, water, unfltrd mg / L -690	Hard- ness, water, mg / L as CaCO3 -900	Noncar- b hard- ness, water unfiltered, mg / L as CaCO3 -902	Calcium water, fltrd, mg / L -915
	0.010						710	430	120
	0.010						830	470	150
	< 0.010						830	500	150
	0.010						730	400	140
	0.010						710	450	130
	1.60						240	110	48.0
	0.070						620	330	110
	0.240						340	130	72.0
	0.010						370	160	80.0
	0.100						400	170	83.0
	0.040						460	230	88.0

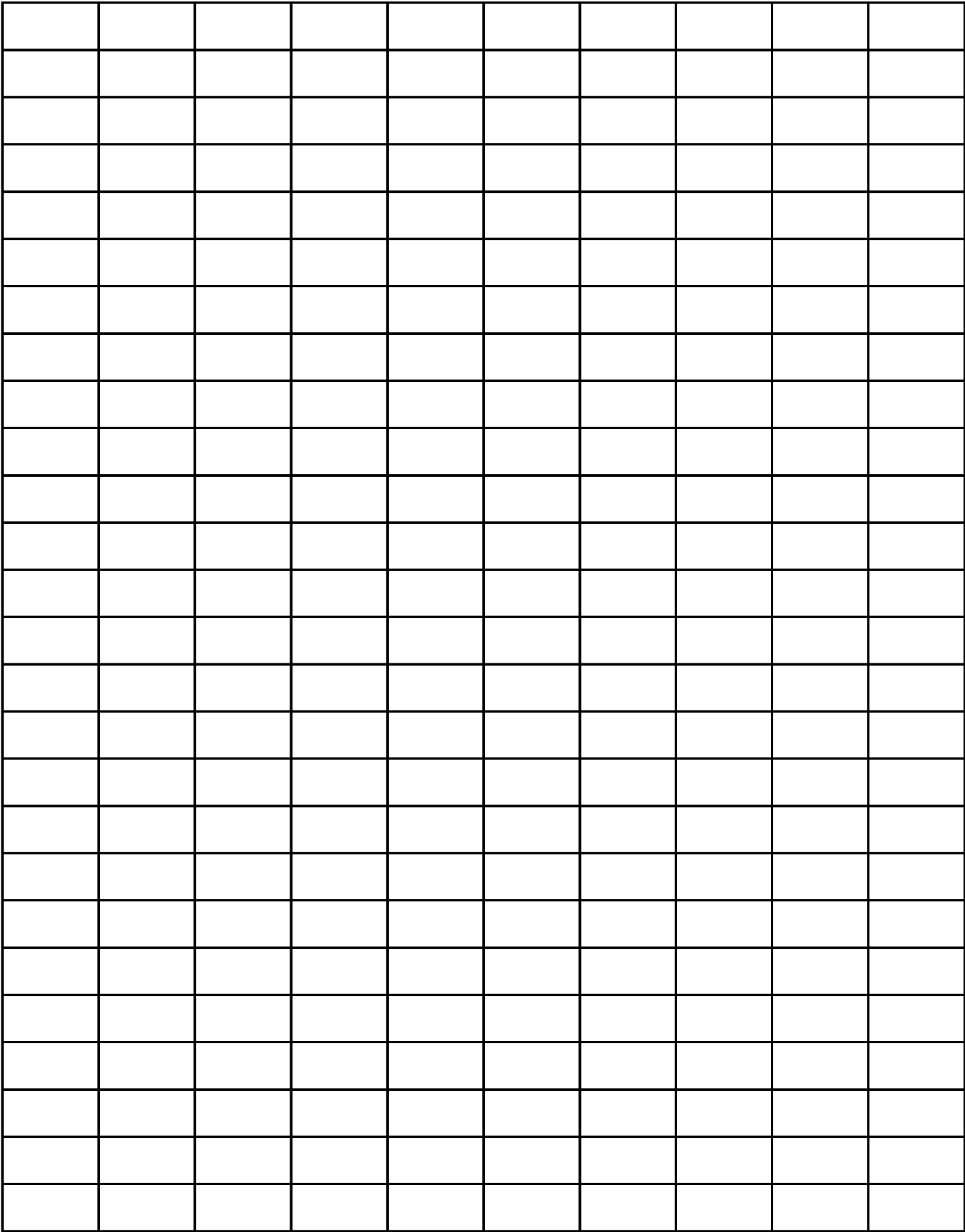
	0.060						490	270	100
	0.010		4.0		0.3		630	370	100
	0.010						510	250	100
	0.030						650	350	120
	0.020		3.3		0.3		530	310	79.0
	0.020						550	280	110
	0.010						520	260	110
	0.090		10.0		<u>> 4.0</u>		230	120	51.0
	0.020		12.0		0.5		600	290	110
	0.200						440	210	85.0
0.090	0.030						430	200	88.0
	0.240						300	130	64.0
1.50	0.480		16.0		8.3		250	89	57.0
	0.060						440	210	89.0
	0.030	5.4		52.0	0.6	57	500	280	91.0
	0.070		4.8		0.3		610	350	110
	0.010						580	310	110
	0.020						630	330	120
	0.000		13.0		0.2		670	310	130
	0.020						600	290	120
	0.110						500	280	92.0
	0.040		7.8				700	420	120
	1.40		7.1		4.1		330	170	68.0
	0.690						290	100	63.0
	0.140		7.5		1.1		350	140	73.0
	0.030						440	210	83.0
	0.020		8.5				440	230	82.0
	0.010		11.0				480	230	86.0
	0.050						670	390	110
	0.030						740	380	140
	0.040		18.0		0.2		550	300	110
	0.050						480	240	95.0







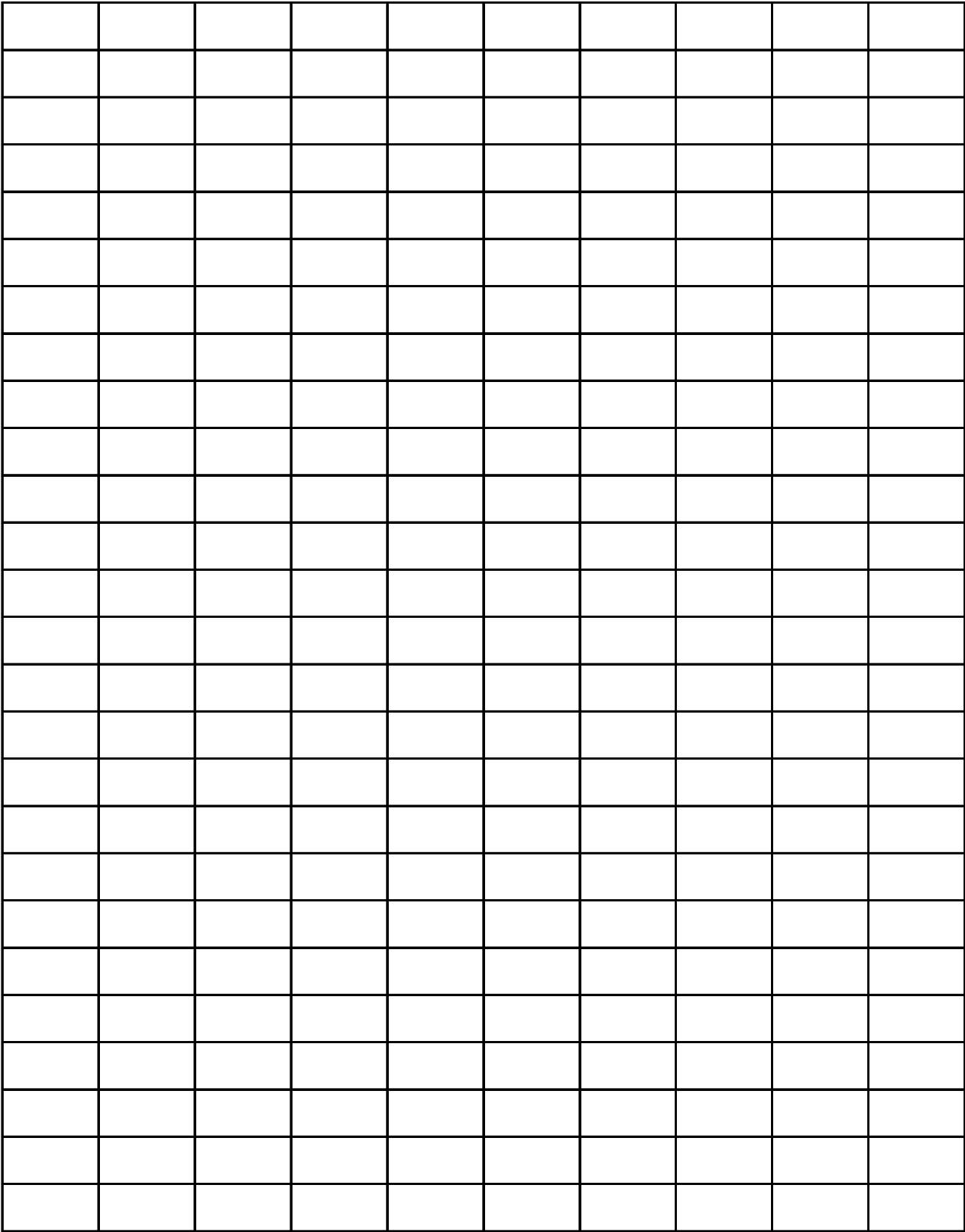
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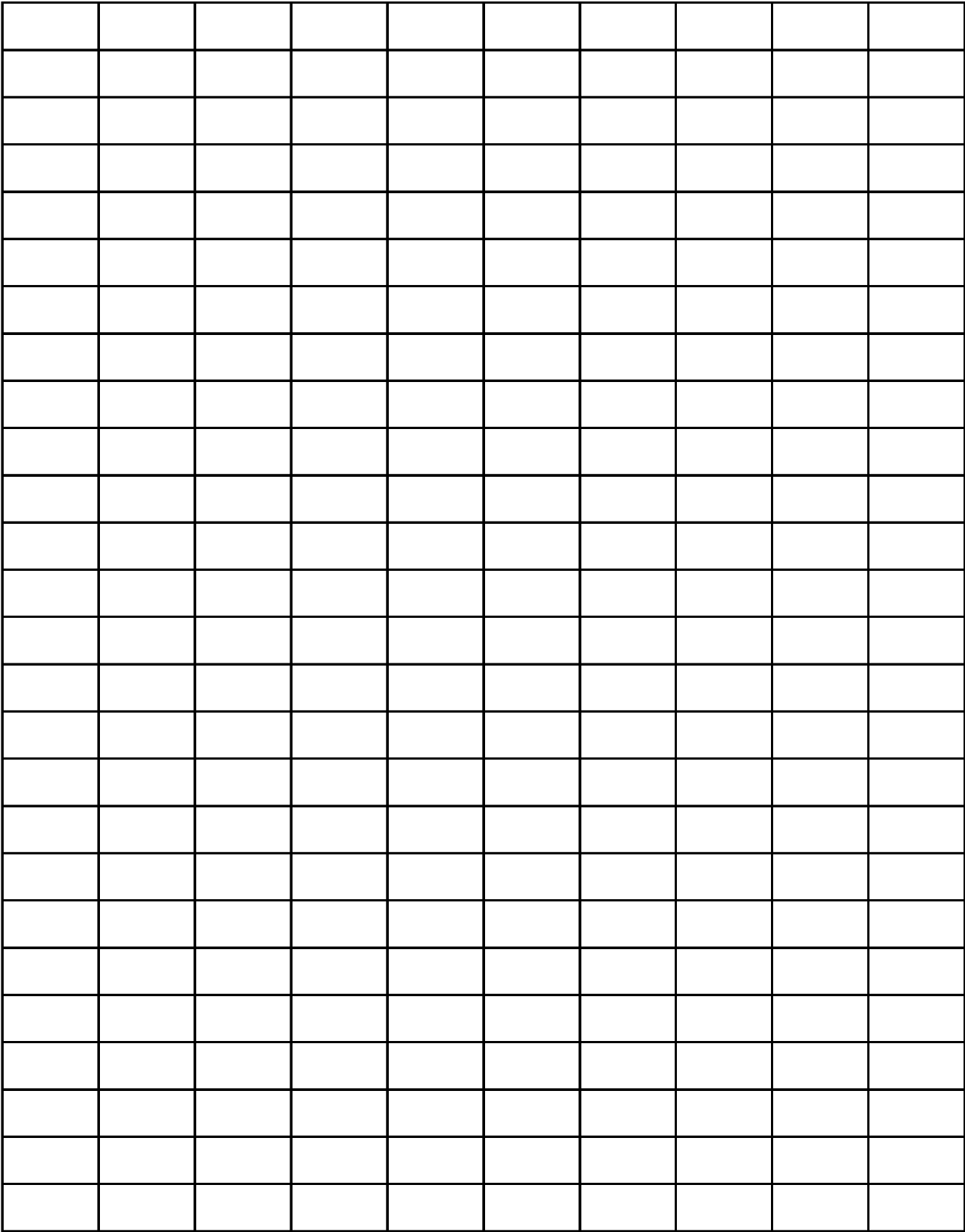


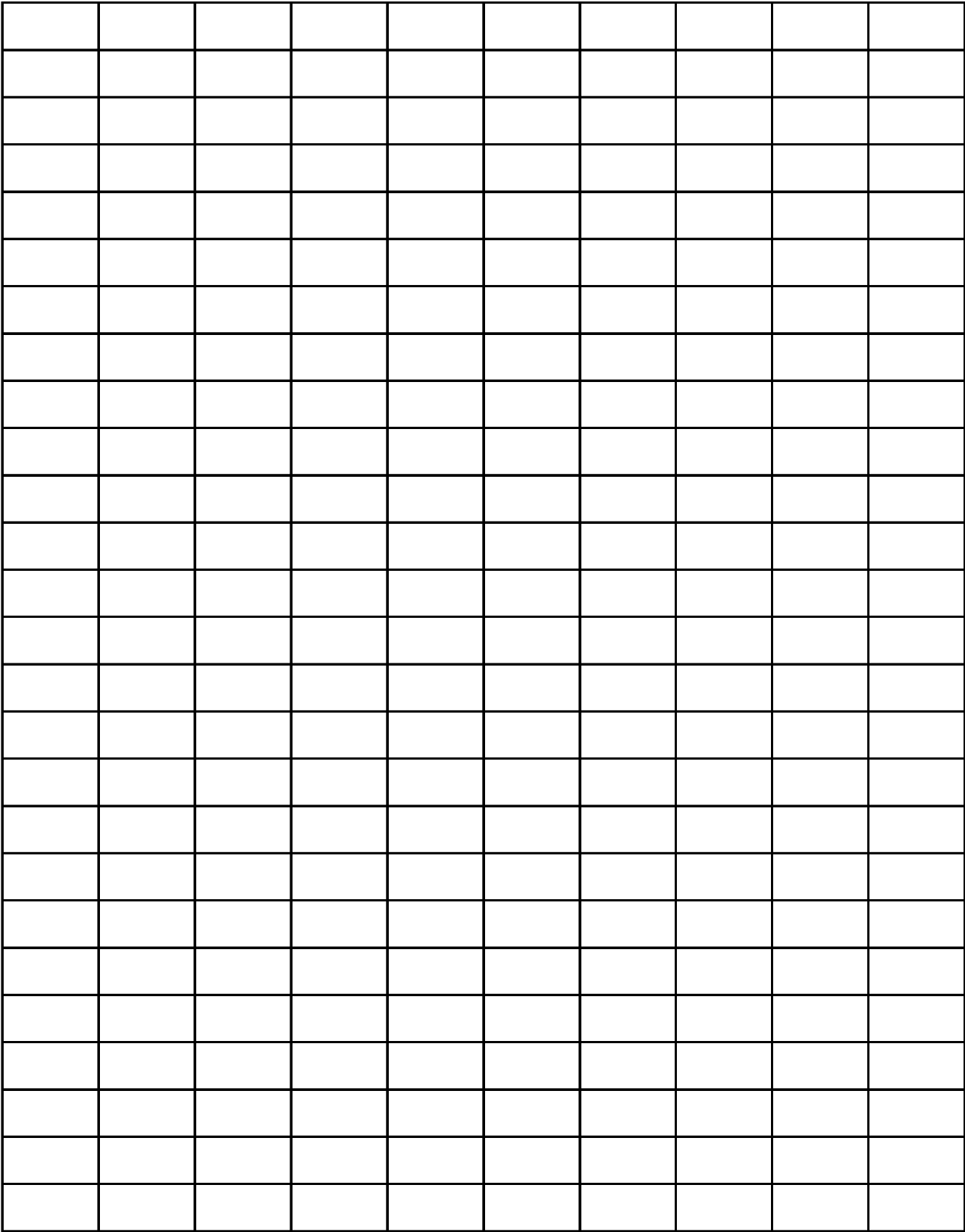
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Magnesium, water, fltrd, mg/L -925	Sodium water, fltrd, mg/L -930	Sodium adsorption ratio -931	Sodium fraction of cations percent -932	Sodium + potassium, water, fltrd, mg/L as Na (00933)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
100	260	4.2	44		5.10	23.0	930	0.40	5.90
110	280	4.2	42		4.90	27.0	1000	0.50	9.00
110	280	4.2	42		5.40	24.0	1000	0.40	9.00
93.0	200	3.2	37		3.90	19.0	780	0.40	9.40
94.0	120	2.0	27		3.90	21.0	690	0.30	9.60
29.0	78.0	2.2	41		5.20	9.1	250	0.20	5.90
83.0	220	3.9	43		4.80	29.0	710	0.40	5.60
38.0	75.0	1.8	32		3.40	11.0	280	0.30	9.40
42.0	80.0	1.8	32		2.90	8.9	310	0.40	7.00
46.0	88.0	1.9	32		3.30	10.0	340	0.40	9.70
59.0	140	2.8	39		4.40	13.0	510	0.20	6.20

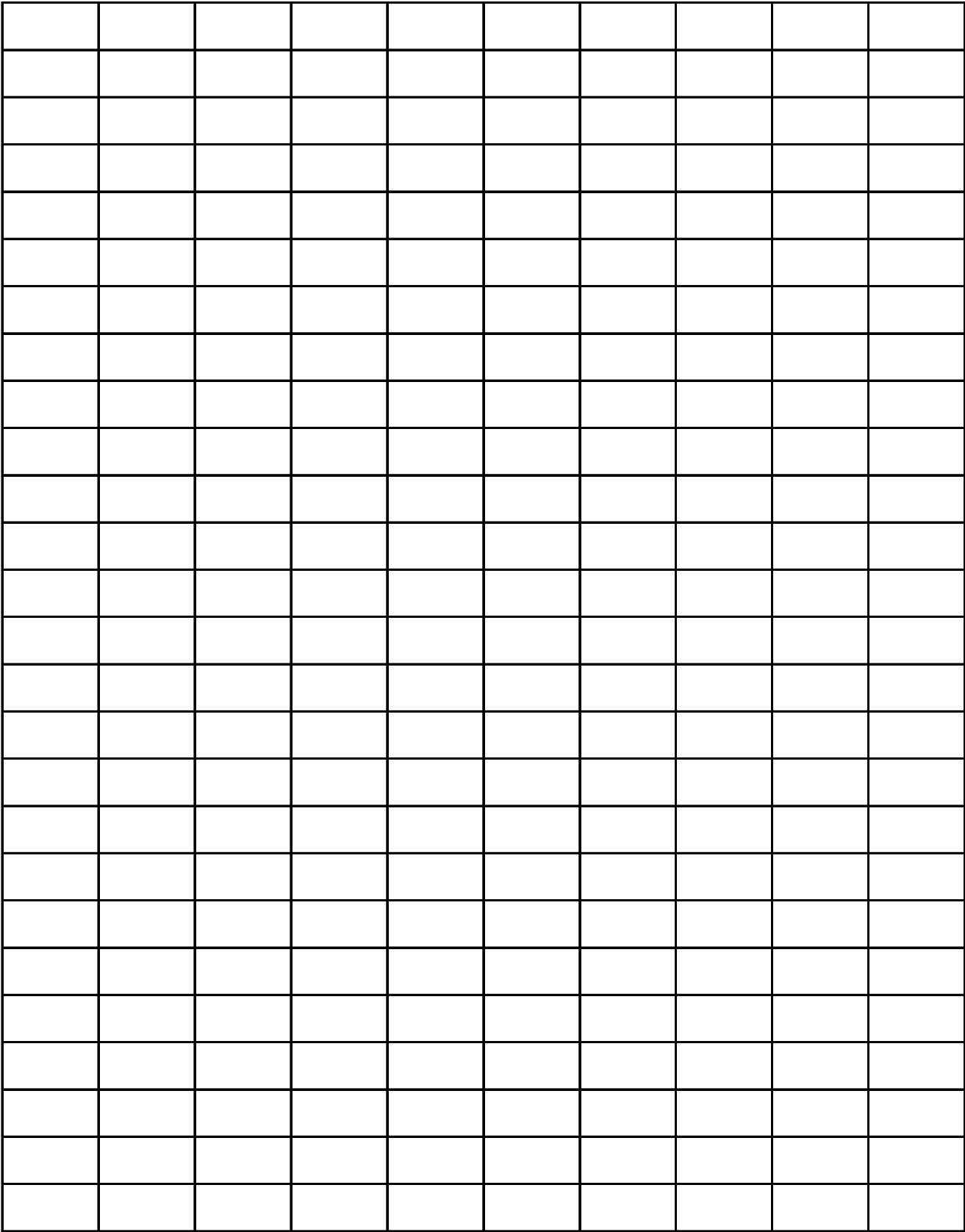
58.0	150	3.0	40		5.70	22.0	530	0.40	6.20
93.0	170	2.9	37		4.50	19.0	700	0.30	5.50
64.0	140	2.7	37		4.00	21.0	490	0.30	6.60
84.0	160	2.7	35		4.70	19.0	630	0.30	9.40
80.0	170	3.2	41		4.70	22.0	630	0.30	9.90
67.0	120	2.2	32		3.20	16.0	540	0.20	11.0
60.0	130	2.5	35		3.90	14.0	520	0.40	9.50
26.0	83.0	2.4	43		6.60	13.0	280	0.20	5.90
79.0	210	3.7	43		4.70	18.0	710	0.40	8.00
55.0	150	3.1	42	150	3.80	18.0	460	0.30	7.60
52.0	130	2.7	39	130	3.90	11.0	440	0.30	7.00
34.0	80.0	2.0	36	86	6.20	8.6	270	0.30	9.10
26.0	150	4.1	56	61	7.70	6.7	190	0.30	11.0
53.0	130	2.7	39	130	4.30	14.0	490	0.30	0.900
66.0	150	2.9	39	150	4.00	16.0	550	0.50	6.40
81.0	190	3.4	40	200	5.90	23.0	710	0.40	5.40
75.0	170	3.1	39	180	5.00	18.0	660	0.40	6.90
81.0	180	3.1	38	180	4.00	18.0	690	0.40	7.10
83.0	190	3.2	38	190	4.70	21.0	730	0.40	7.60
72.0	160	2.9	37	160	4.00	12.0	630	0.40	7.80
66.0	180	3.5	44		5.00	20.0	630	0.30	6.50
96.0	230	3.8	42		5.20	30.0	810	0.40	4.50
38.0	100	2.4	40		4.70	9.3	370	0.30	9.40
33.0	95.0	2.4	41		3.80	7.1	290	0.40	9.30
41.0	88.0	2.0	35		3.80	8.4	330	0.50	8.40
56.0	140	2.9	41		5.90	12.0	500	0.40	5.80
57.0	140	2.9	41		5.20	13.0	520	0.40	6.00
65.0	160	3.2	42		5.40	14.0	570	0.30	5.60
97.0	250	4.2	44		5.10	23.0	810	0.40	4.90
96.0	250	4.0	42		7.20	22.0	870	0.30	6.70
66.0	150	2.8	37		3.20	16.0	540	0.30	7.50
59.0	140	2.8	39		3.30	15.0	480	0.30	5.70







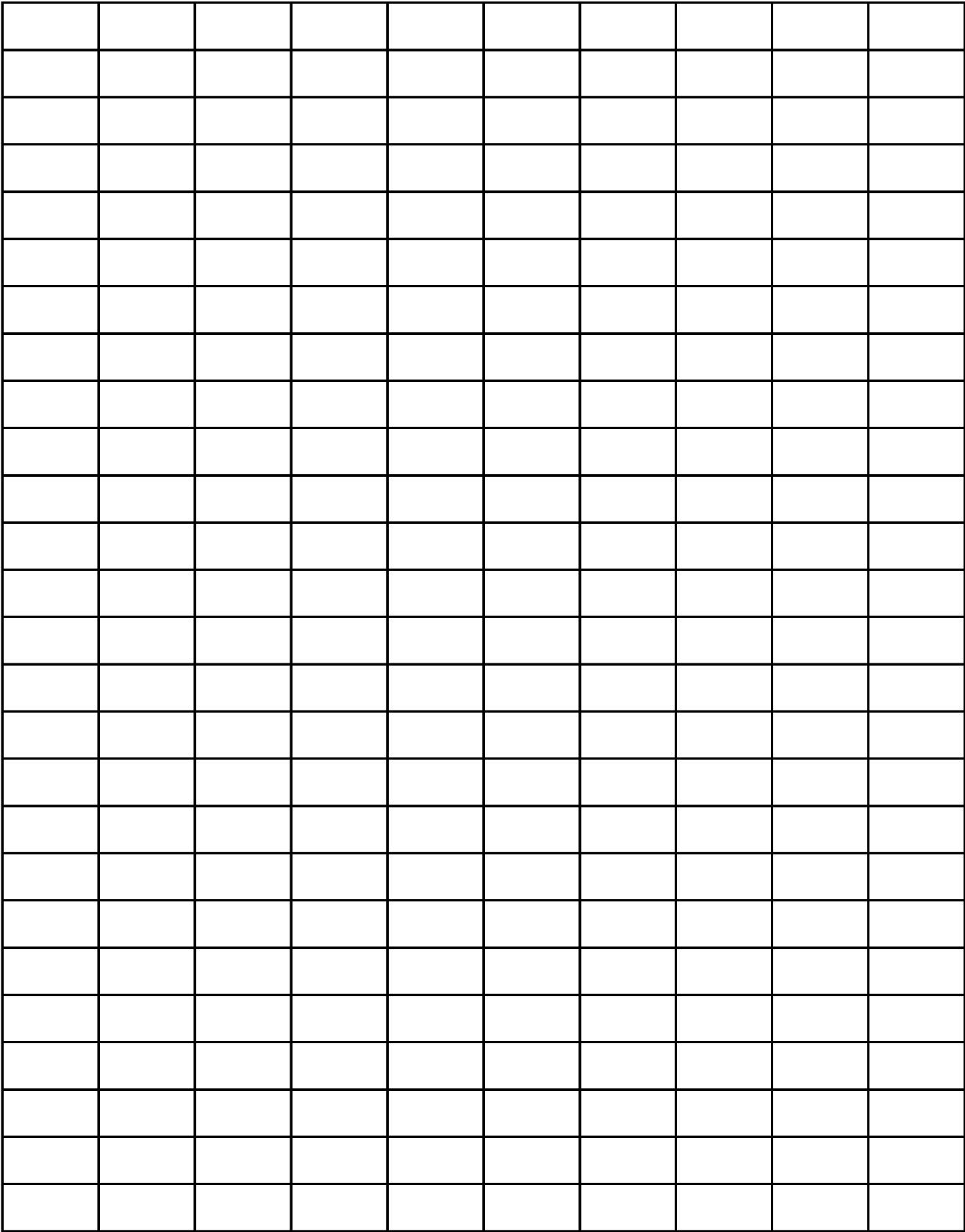
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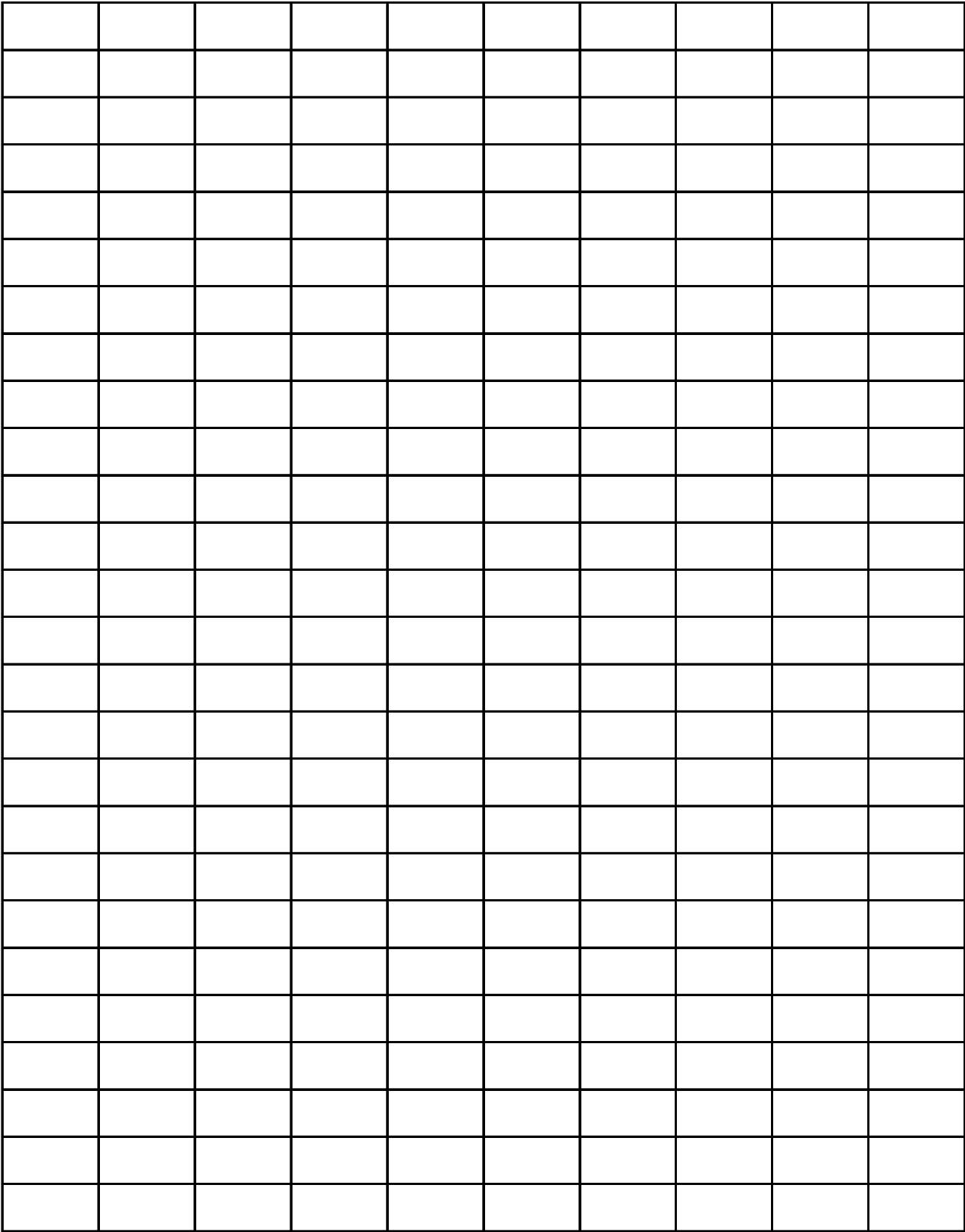


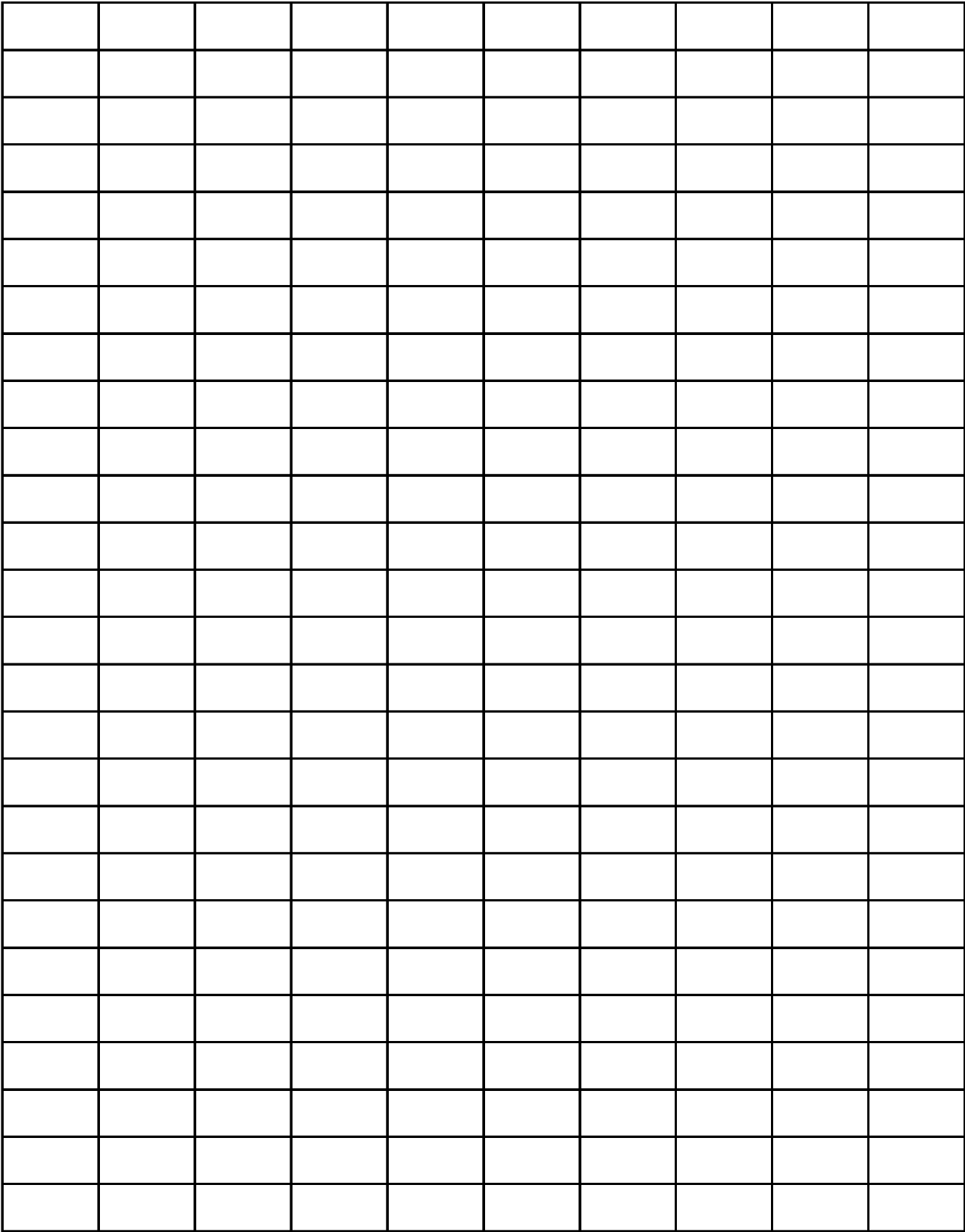
[illegible]

Arsenic water, fltrd, ug / L (01000)	Arsenic suspnd sedimn t total, ug / L (01001)	Arsenic water, unfltrd ug / L (01002)	Beryll- ium, water, fltrd, ug / L (01010)	Beryll- ium, suspnd sedimn t recover- able, ug / L (01011)	Beryll- ium, water, unfltrd recover- able, ug / L (01012)	Boron, water, fltrd, ug / L (01020)	Cadmiu m water, fltrd, ug / L (01025)	Cadmiu m suspnd sedimn t recover- able, ug / L (01026)	Cadmiu m water, unfltrd ug / L (01027)
4.0			<u>< 10</u>			230	<u>< 2</u>		
						230			
						220			
1.0			<u>< 10</u>			180	<u>< 2</u>		
						170			
10.0		7	<u>< 10</u>		<u>< 10</u>	110	<u>U</u>		<u>U</u>
						180			
						100			
						110			
2.0			<u>< 10</u>			120	<u>< 2</u>		
						190			

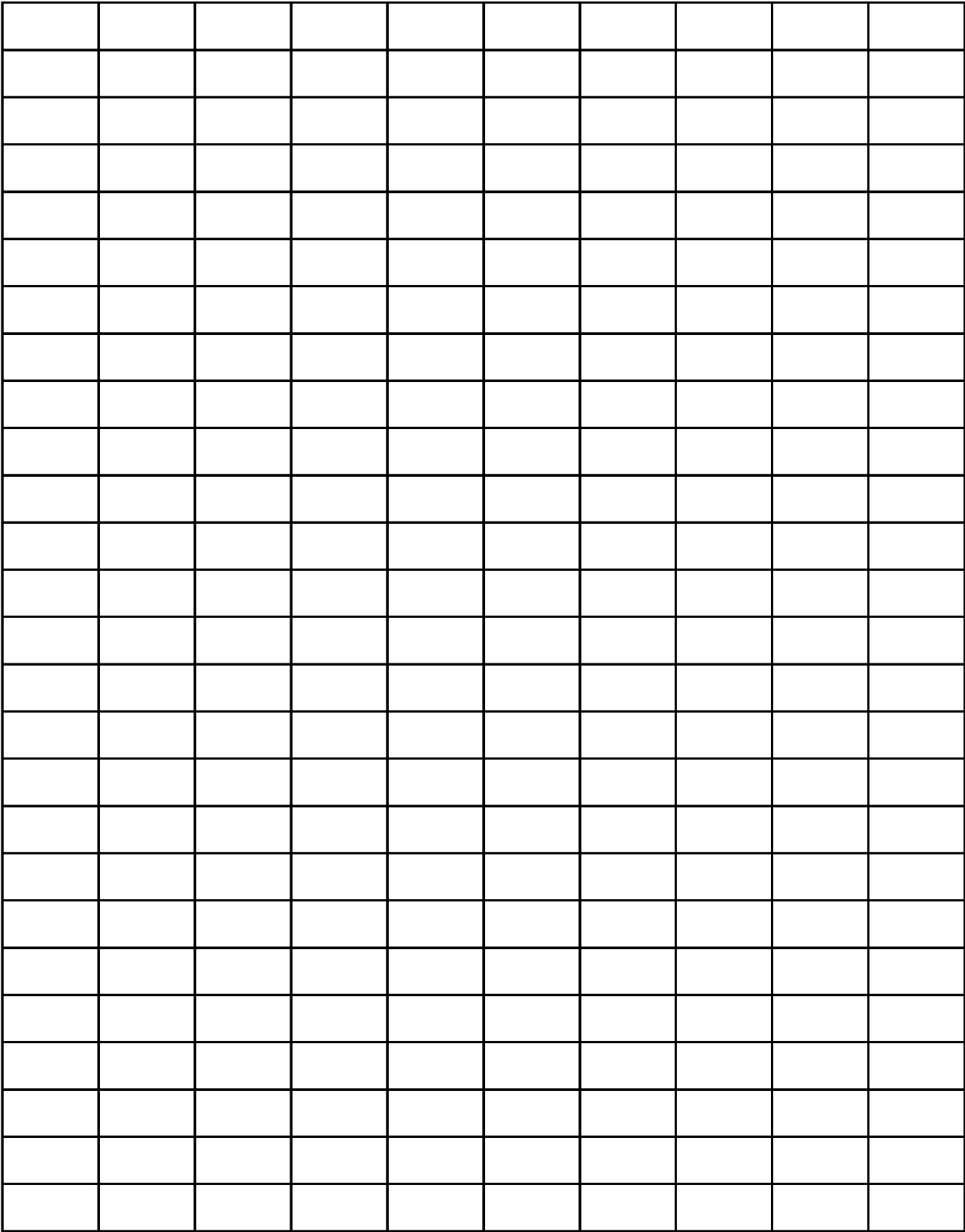
						200			
						210			
						150			
						170			
						180			
						130			
						130			
1.0		8	<u>< 10</u>		10	80	<u>U</u>		<u>< 2</u>
						200			
						140			
						<u>< 20</u>			
						150			
2.0	10	10	<u>< 10</u>	0.0	<u>< 10</u>	90	<u>M</u>	0.0	<u>U</u>
						170			
2.0	<u>< 1</u>	2	<u>< 10</u>	10	10	170	<u>U</u>	0.0	<u>U</u>
						200			
						180			
						170			
						180			
						170			
						140			
						270			
9.0	5	14	<u>< 1</u>		0.0	130	<u>M</u>	0.0	<u>M</u>
						120			
						130			
						190			
2.0	0.0	2	<u>< 1</u>		0.0	170	<u>< 1</u>		0.0
						160			
						150			
						250			
						130			
						120			







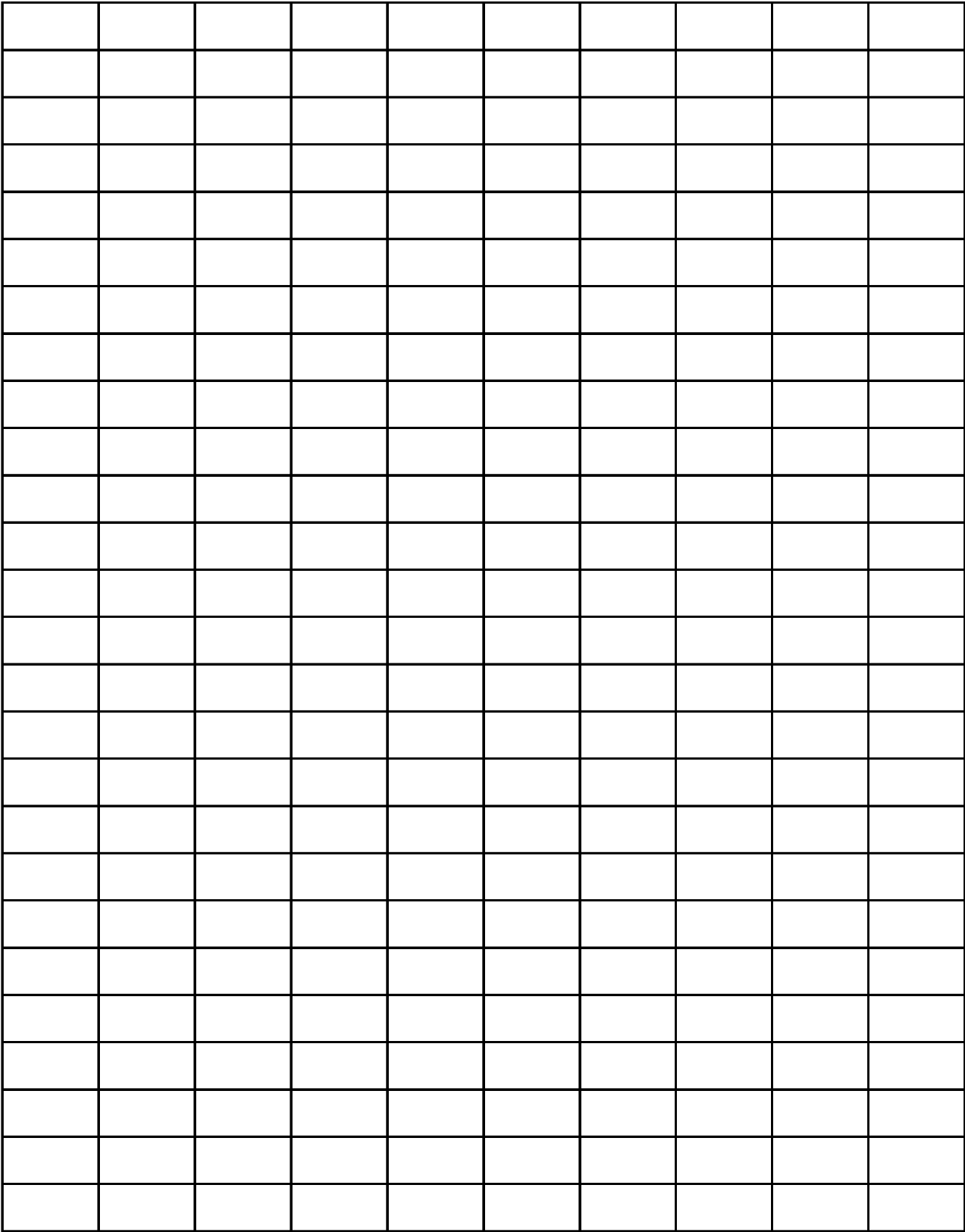
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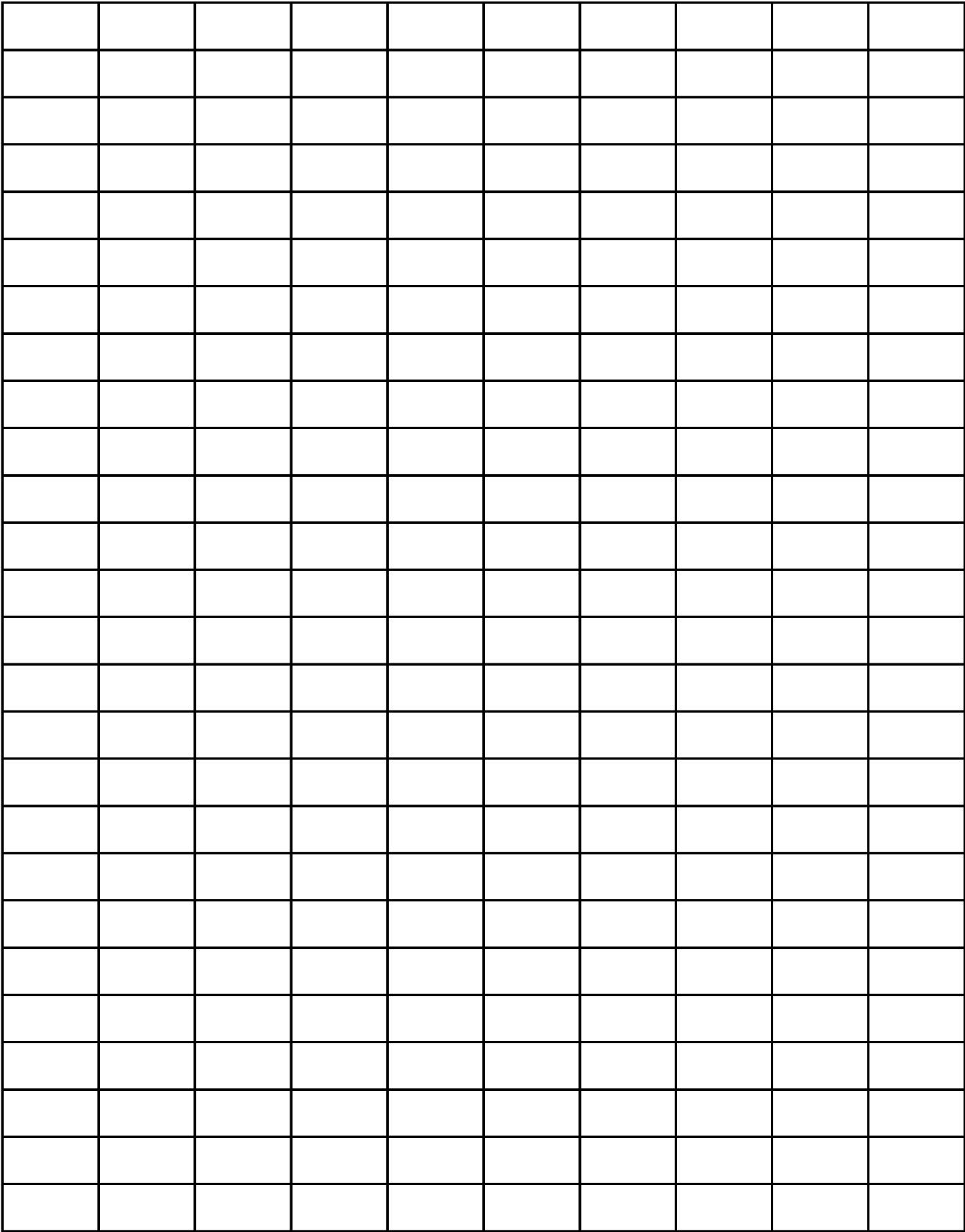


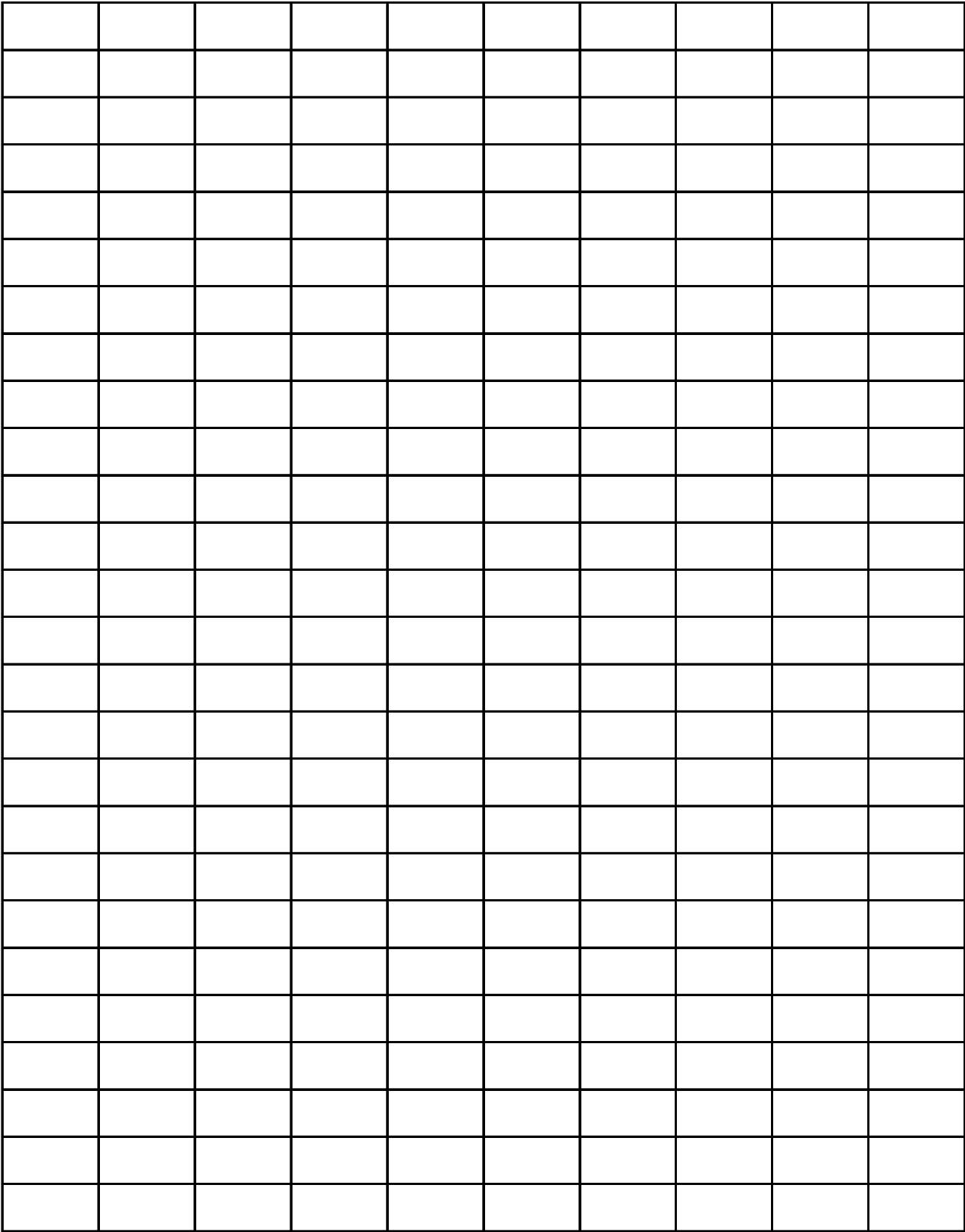
[illegible]

Chrom- ium, water, fltrd, ug / L (01030)	Chrom- ium, suspnd sedimn t recover -able, ug / L (01031)	Chrom- ium, water, unfltrd recover -able, ug / L (01034)	Copper, water, fltrd, ug / L (01040)	Copper, suspnd sedimn t recover -able, ug / L (01041)	Copper, water, unfltrd recover -able, ug / L (01042)	Iron, suspnd sedimn t recover -able, ug / L (01044)	Iron, water, unfltrd recover -able, ug / L (01045)	Iron, water, fltrd, ug / L (01046)	Lead, water, fltrd, ug / L (01049)
U			< 2					20	M
								30	
								20	
U			< 2					< 10	M
								< 10	
< 20		50	U		60		58000	110	M
								30	
								20	
								< 10	
U			M					30	M
								< 10	

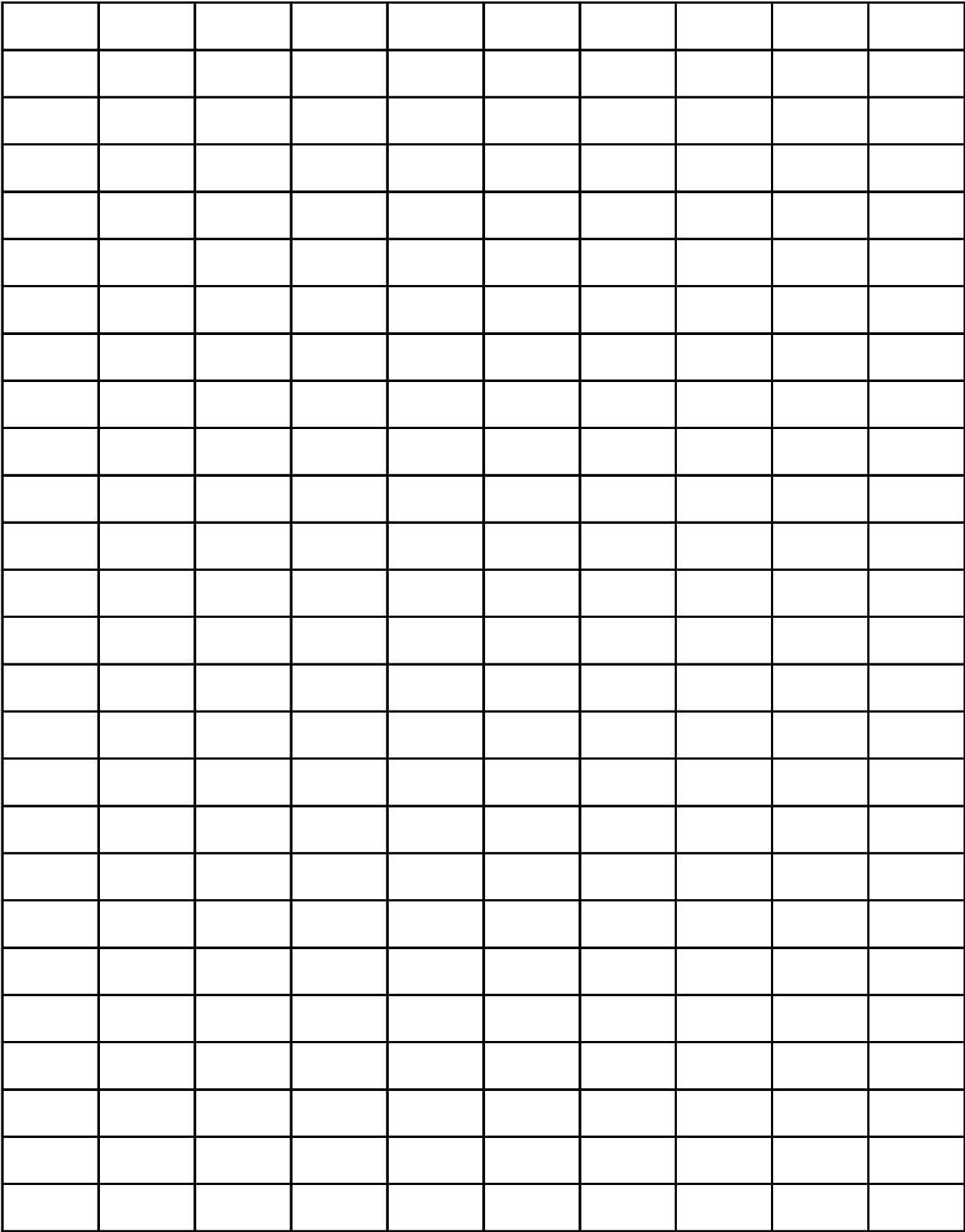
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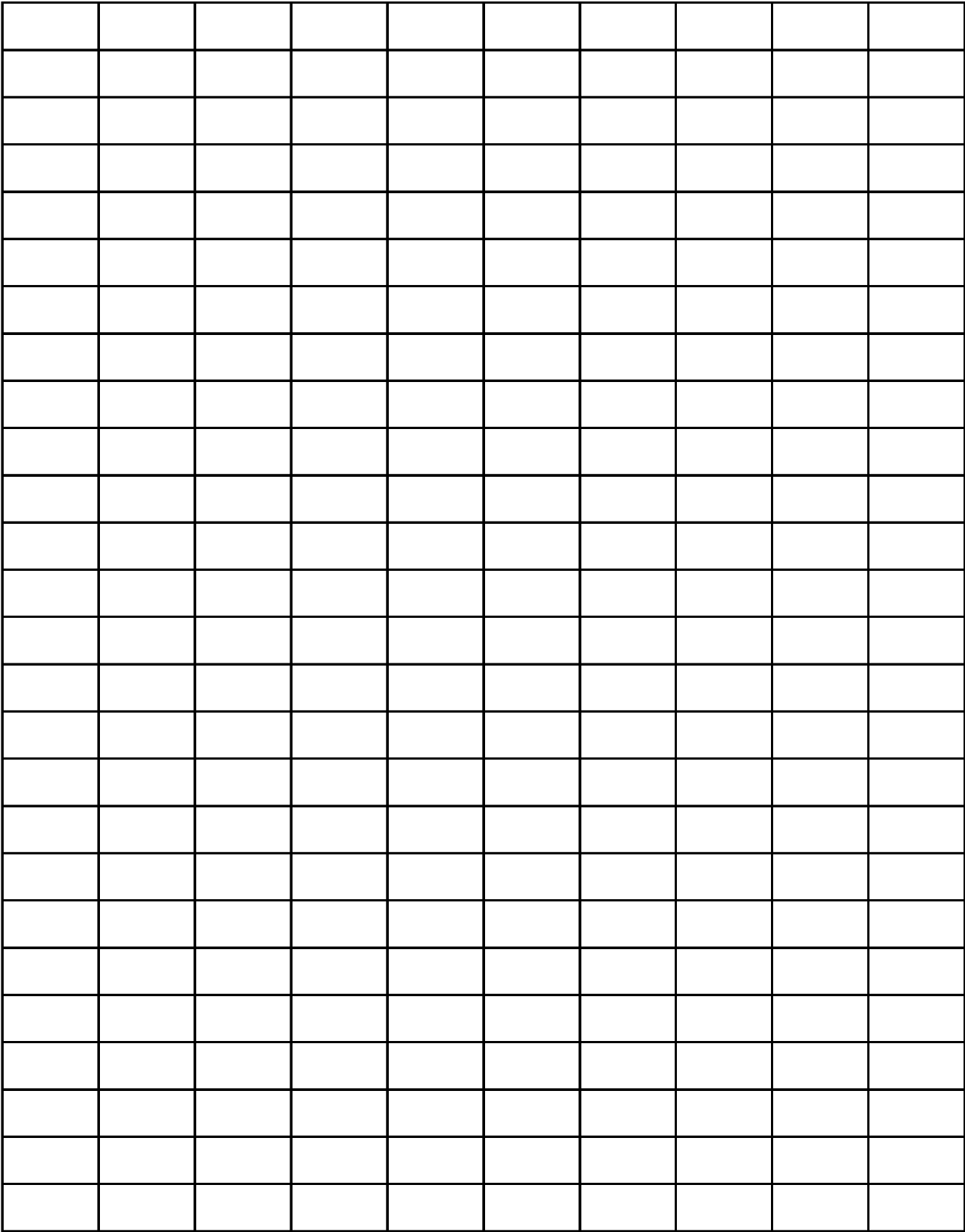
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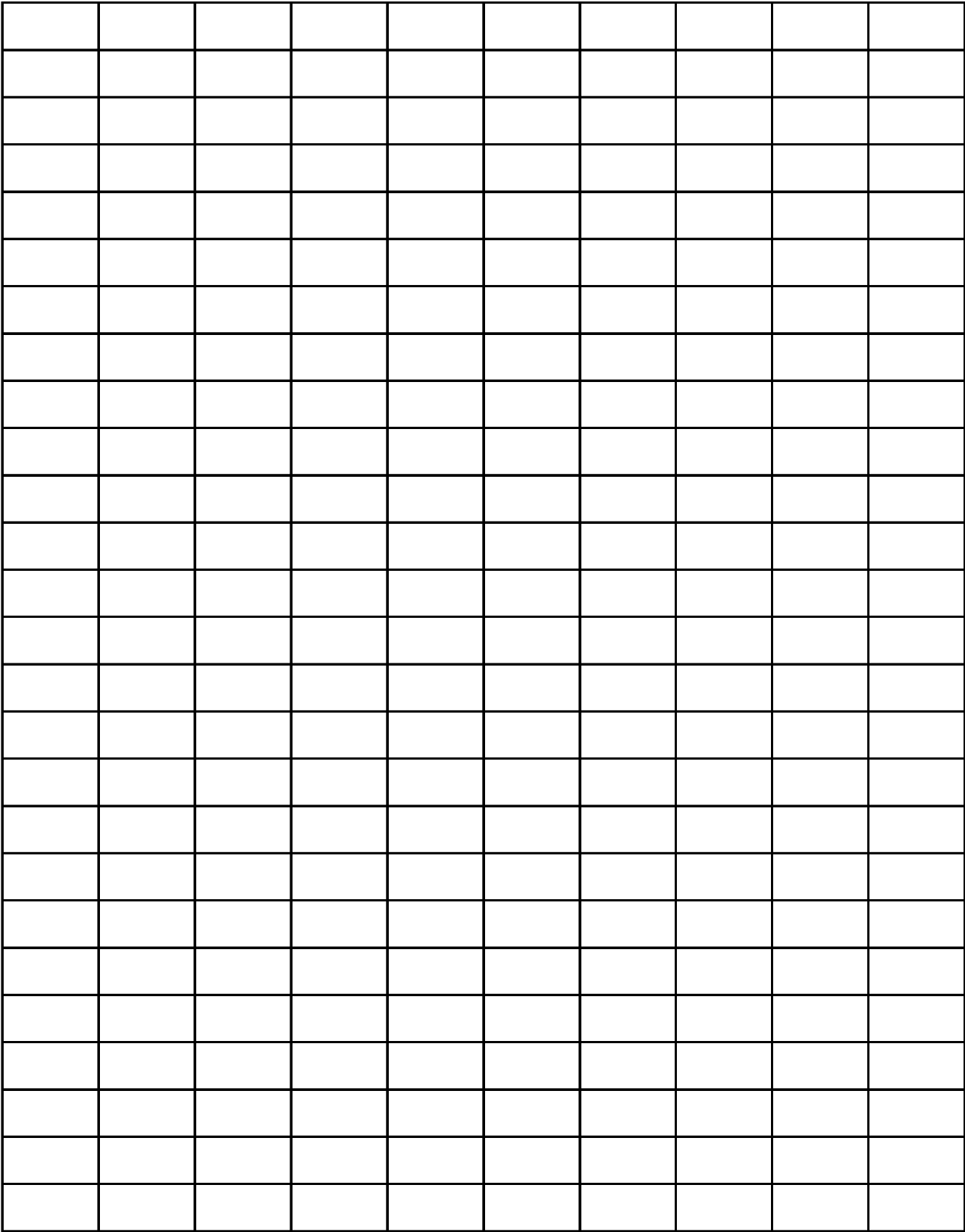


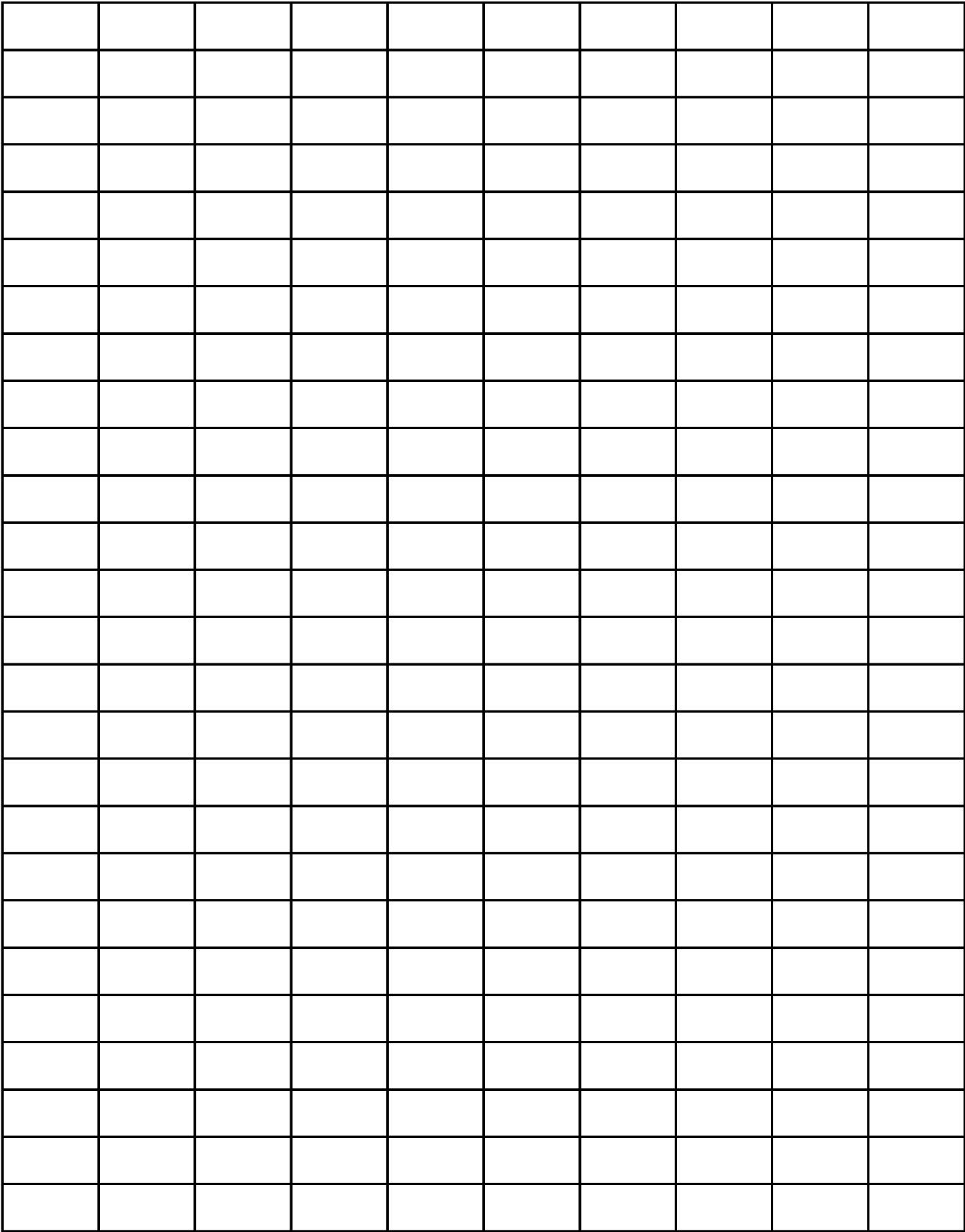
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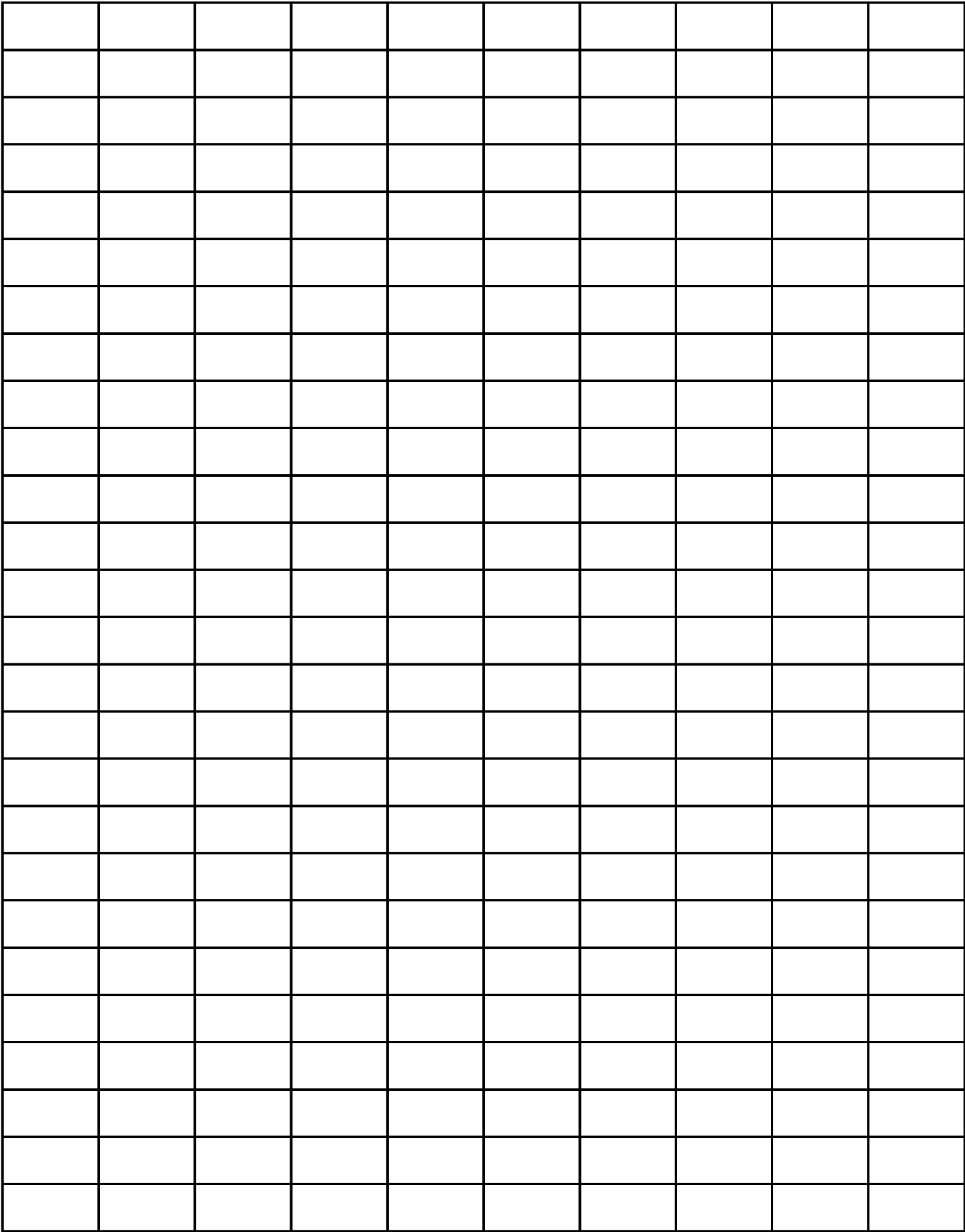
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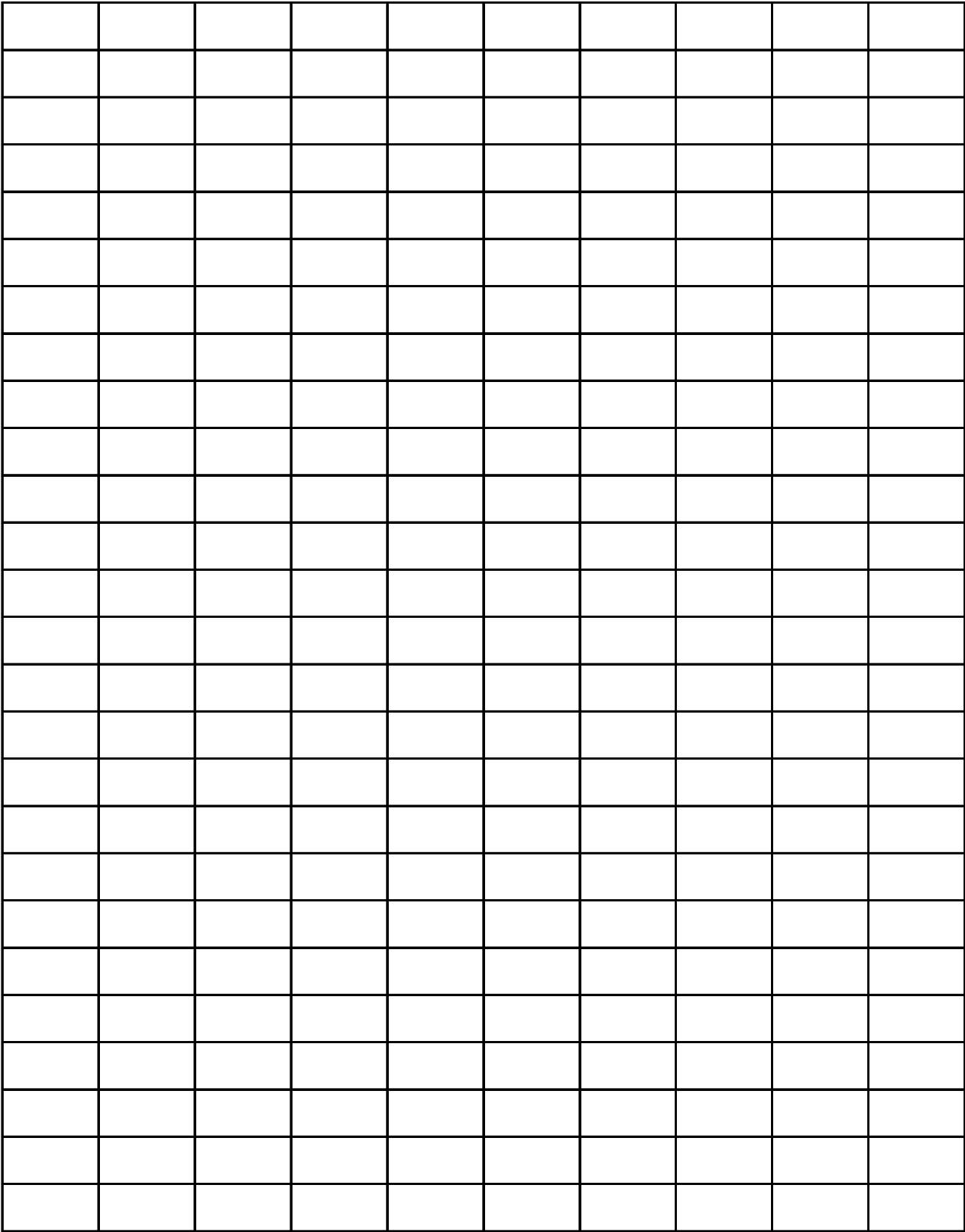
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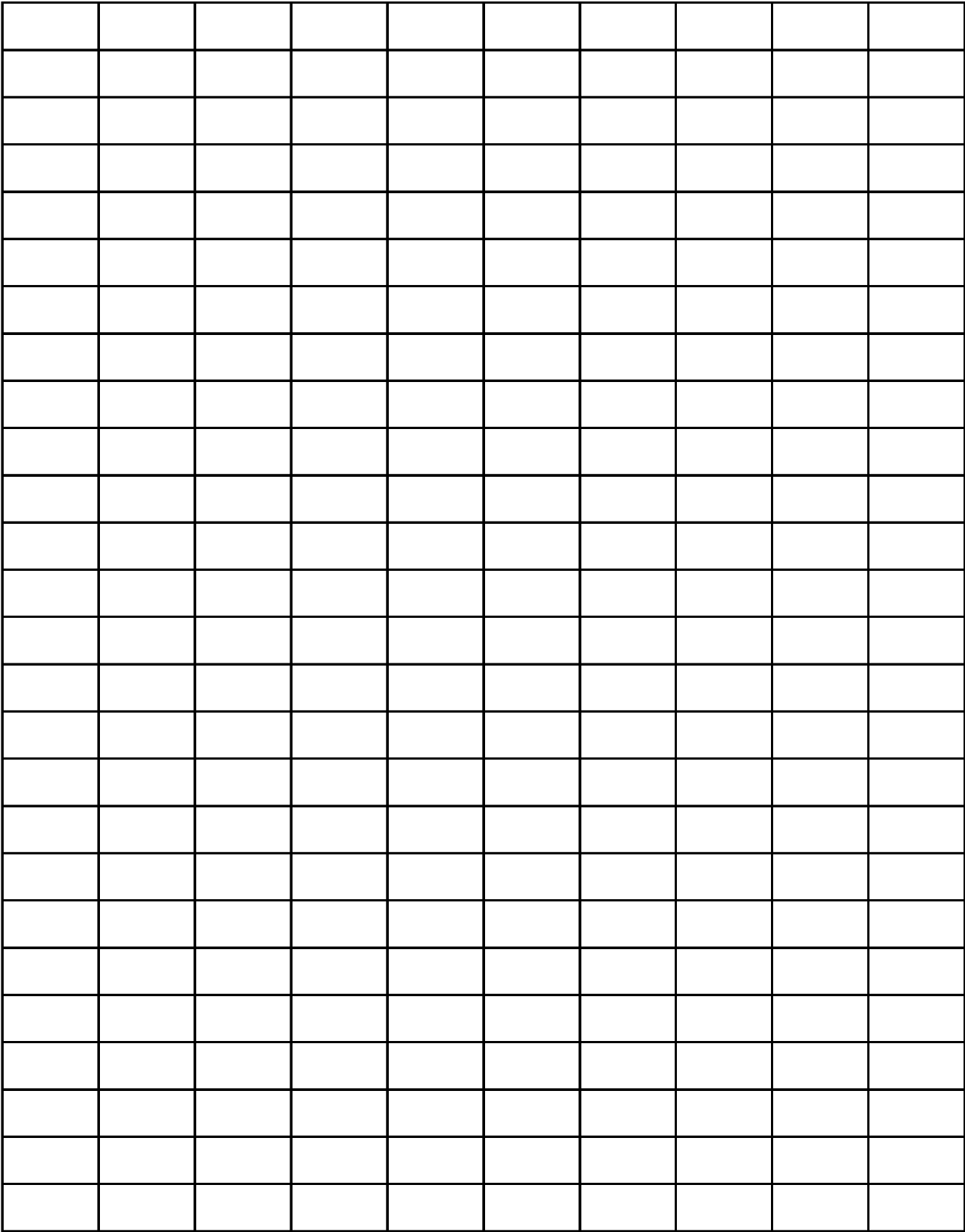


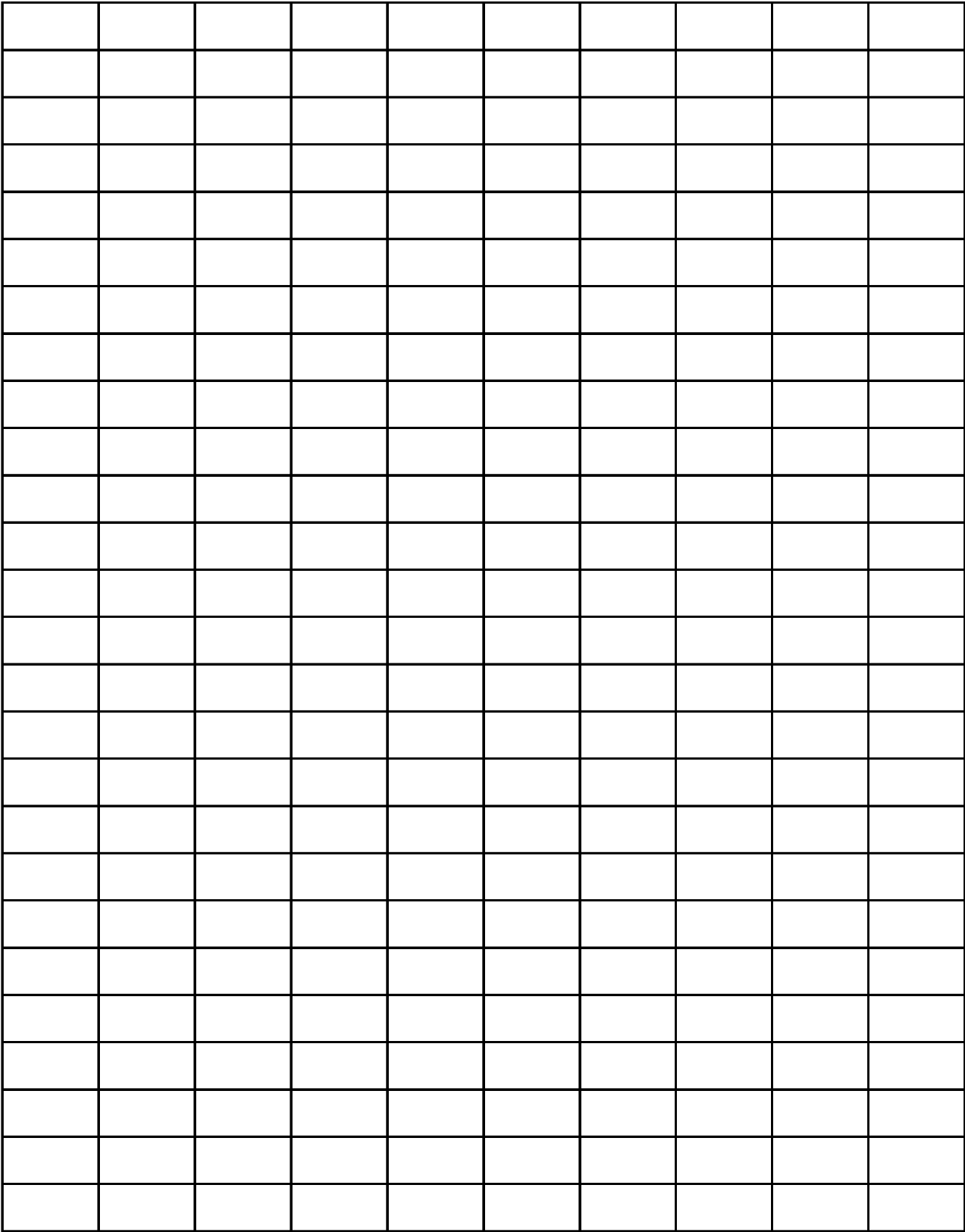
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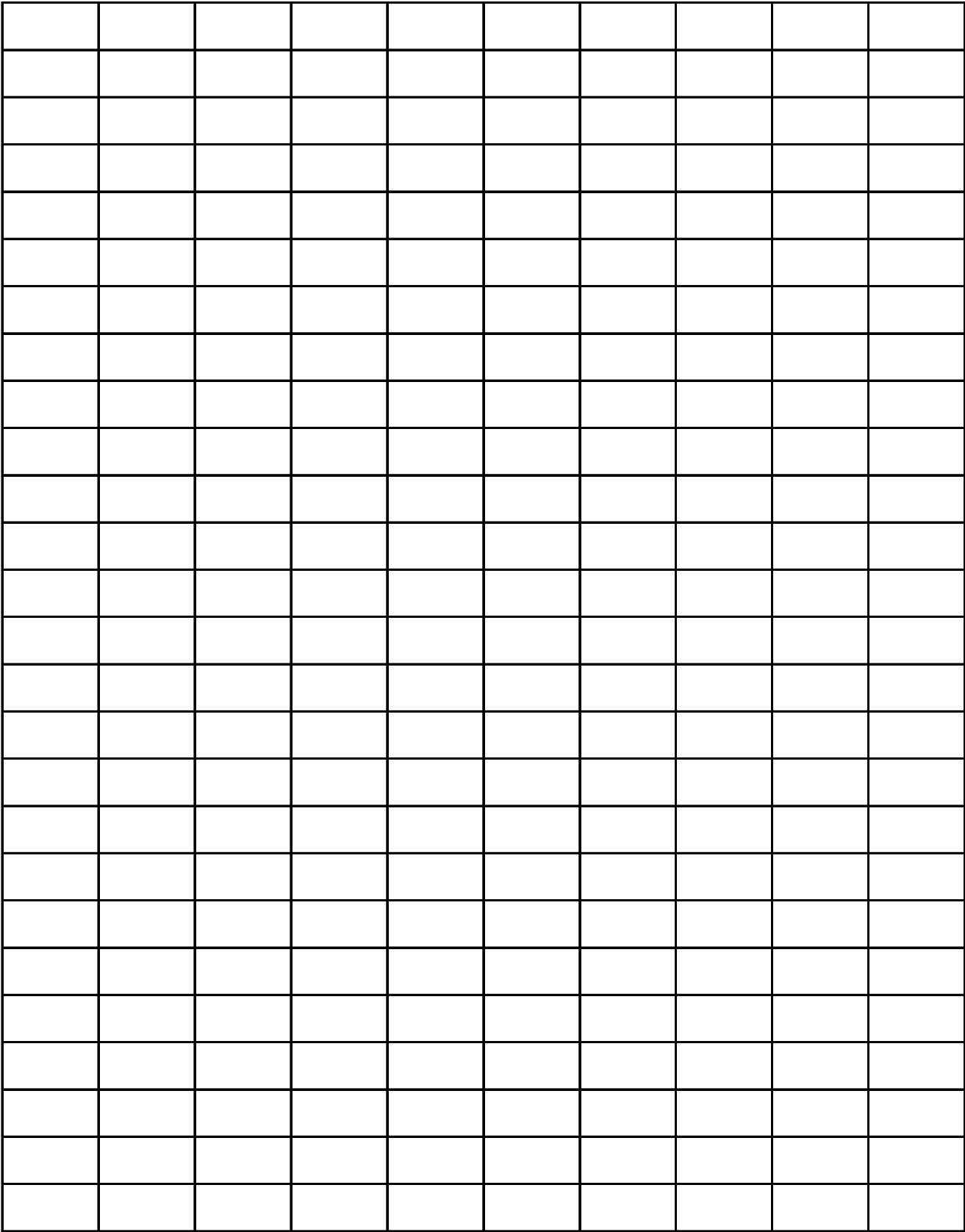
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[illegible]



[illegible]

Selen- ium, water, unfltrd ug /L (01147)	Gage height above datum meters (30207)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg /L (70301)	Residue water, dis- solved, tons/d (70302)	Residue water, fltrd, tons/ acre-ft (70303)	Suspnd. sedi- ment, sieve diametr percent <.063m m (70331)	Suspnd. sedi- ment, falldia dst wat percent <.004m m (70338)	Suspnd. sedi- ment, falldia dst wat percent <.016m m (70340)	Suspnd. sedi- ment, falldia dst wat percent <.063m m (70342)
		0.739	1610	113	2.19	70			
		0.793	1800	136	2.45	67			
		1.67	1780	284	2.42				
		1.84	1440	253	1.96	70			
		1.64	1230	193	1.67	46			
		176							
3		99.7	505	4800	0.69	79			
		8.50	1340	1090	1.82	96			
		26.8	612	1560	0.83	90			
		24.3	660	1530	0.90	79			
		25.7	719	1760	0.98	84			
		6.20	958	566	1.30	82			

		9.66	1000	921	1.36	95			
		4.22	1250	503	1.70	90			
		6.32	982	591	1.34	88			
		4.96	1210	572	1.65	91			
		3.03	1130	326	1.54	96			
		3.48	1030	342	1.40	89			
		6.00	1000	572	1.36	96			
1		96.0	532	4870	0.72	64			
		17.8	1330	2260	1.81	94			
		28.6	918	2500	1.25	90			
		8.69	871	722	1.18	88			
		55.5	575	3040	0.78		33	52	86
1		127	448	5410	0.61	71			
		7.16	920	628	1.25	97			
1		5.21	1020	507	1.39	97			
		2.78	1280	339	1.74	84			
		3.57	1210	412	1.65	69			
		3.96	1280	484	1.74	85			
		1.61	1380	212	1.88	63			
		3.29	1190	373	1.62	97			
		5.01	1130	540	1.54	89			
		4.81	1470	675	2.00	95			
2		34.3	696	2270	0.95		43	62	84
		39.6	616	2330	0.84	81			
		10.1	680	655	0.92	90			
		5.15	942	463	1.28	93			
1		3.51	950	318	1.29	81			
		1.73	1060	175	1.44	76			
		2.10	1470	294	2.00	81			
		1.10	1610	170	2.19	77			
		2.75	1040	272	1.41	96			
		5.41	943	486	0.87	87			

		2.10	1160	232	1.58	87			
0.0		1.44	1700	234	2.31	68			
1		22.9	1280	2790	1.74		28	47	75
3		111	640	6770	0.87		34	53	77
		9.23	936	824	1.27	91			
		9.83	842	789	1.15	70			

Selen- ium, water, unfltrd ug/L (01147)	Gage height above datum meters (30207)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, dis- solved, tons/d (70302)	Residue water, fltrd, tons/ acre-ft (70303)	Suspnd. sedi- ment, sieve diametr percent <.063m m (70331)	Suspnd. sedi- ment, falldia dst wat percent <.004m m (70338)	Suspnd. sedi- ment, falldia dst wat percent <.016m m (70340)	Suspnd. sedi- ment, falldia dst wat percent <.063m m (70342)
		1.70	1140	185	1.55	85			
		73.1							
		57.5							
		12.3							
		12.1							
		3.14							
		4.22							
		5.30							
		3.65							
		2.18							
		5.86							
		14.2							
		10.7							
		11.2							

		9.54							
		2.86							
		2.24							
		0.765							
		4.73							
		3.09							
		5.15							
		13.7							
		9.77							
		7.96							
		5.49							
		5.92							
		1.24							
		1.20							
		0.521							
		0.168							
		3.14							
		1.71							
		5.58							
		5.27							
		0.146							
		0.827							
		0.504							
		0.943							
		0.617							
		1.05							

		40.2							
		1.76							
		15.0							
		4.87							
		9.15							
		1.84							
		1.35							
		1.02							
		1.89							
		1.51							

Selen- ium, water, unfltrd ug/L (01147)	Gage height above datum meters (30207)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, dis- solved, tons/d (70302)	Residue water, fltrd, tons/ acre-ft (70303)	Suspnd. sedi- ment, sieve diametr percent <.063m m (70331)	Suspnd. sedi- ment, falldia dst wat percent <.004m m (70338)	Suspnd. sedi- ment, falldia dst wat percent <.016m m (70340)	Suspnd. sedi- ment, falldia dst wat percent <.063m m (70342)
		5.98							
		5.98							
		4.36							
		1.30							
		2.12							
		0.312							
		0.736							
		0.991							

		2.55							
		4.13							
		0.935							
		0.340							
		0.793							
		0.368							
		0.085							
		0.244							
		0.312							
		0.204							
		7.36							
		3.40							
		2.21							
		0.680							
		1.16							
		1.90							
		0.906							
		0.680							
		0.906							
		1.56							
		0.623							
		0.130							
		10.4							
		6.80							
		7.59							
		1.08							

	0.280	0.765							
	0.381	0.623							
	0.293	0.963							
	0.357	1.76							
	1.76	56.1							
	1.01	18.1							
	0.616	5.64							
	0.381	1.42							
	0.405	1.64							
	0.332	0.736							
	0.393	1.13							
	0.354	1.47							
	0.274	0.736							
	0.594	5.47							
	0.146	0.071							
	1.23	25.1							

Selen- ium, water, unfltrd ug/L (01147)	Gage height above datum meters (30207)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, dis- solved, tons/d (70302)	Residue water, fltrd, tons/ acre-ft (70303)	Suspnd. sedi- ment, sieve diametr percent <.063m m (70331)	Suspnd. sedi- ment, falldia dst wat percent <.004m m (70338)	Suspnd. sedi- ment, falldia dst wat percent <.016m m (70340)	Suspnd. sedi- ment, falldia dst wat percent <.063m m (70342)
	0.668	7.59							
	0.451	3.06							

	0.326	1.27							
	0.332	1.36							
	0.454	0.651							
	0.503	0.765							
	0.579	5.32							
	0.302	1.02							
	0.759	10.2							
	0.564	5.18							
	1.02	20.4							
	0.826	13.0							
	0.613	6.43							
	0.664	4.25							
	0.671	2.30							
	0.472	3.91							
	0.485	4.19							
	0.658	7.56							
	0.546	5.07							
	0.326	1.52							
	0.402	1.19							
	0.457	0.561							
	0.326	1.76							
	1.36	34.3							
	0.869	15.1							
	0.524	4.13							
	0.533	4.84							
	0.436	3.06							

	0.695	3.03							
	0.683	6.51							
	0.668	7.73							
	1.34	34.6							
	0.680	8.50							
	0.536	4.56							
	0.433	2.40							
	2.12	74.8							
	0.866	8.89							
	0.850	8.72							
	0.960	6.77							
	0.652	5.13							
	0.546	3.09							
	0.716	7.11							
	0.491	2.62							
	0.479	2.15							
	0.485	2.89							
	0.378	1.47							
	0.576	4.47							
	0.637	5.58							
	0.427	1.70							
	0.344	0.501							

Selen- ium,	Gage height	Dis- charge,	Residue water, fltrd, sum of	Residue water,	Residue water,	Suspnd. sedi- ment, sieve	Suspnd. sedi- ment, falldia	Suspnd. sedi- ment, falldia	Suspnd. sedi- ment, falldia
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water, unfltrd ug/L (01147)	above datum meters (30207)	instan- taneous m3/s (30209)	consti- tuents mg/L (70301)	dis- solved, tons/d (70302)	fltrd, tons/ acre-ft (70303)	diametr percent <.063m m (70331)	dst wat percent <.004m m (70338)	dst wat percent <.016m m (70340)	dst wat percent <.063m m (70342)
	0.296	0.680							
	0.241	0.323							
	0.119	0.012							
	0.552	4.22							
	0.226	0.317							
	0.305	0.095							
	0.277	0.236							
	0.344	0.377							
	0.280	0.739							
	0.152	0.050							
	0.177	0.085							
	0.232	0.004							
	0.335	0.155							
	0.293	0.232							
	0.152	0.044							
	0.402	1.97							
	0.204	0.152							
	0.158	0.056							
	0.192	0.238							
	0.250	0.182							
	0.262	0.609							
	0.518	3.85							

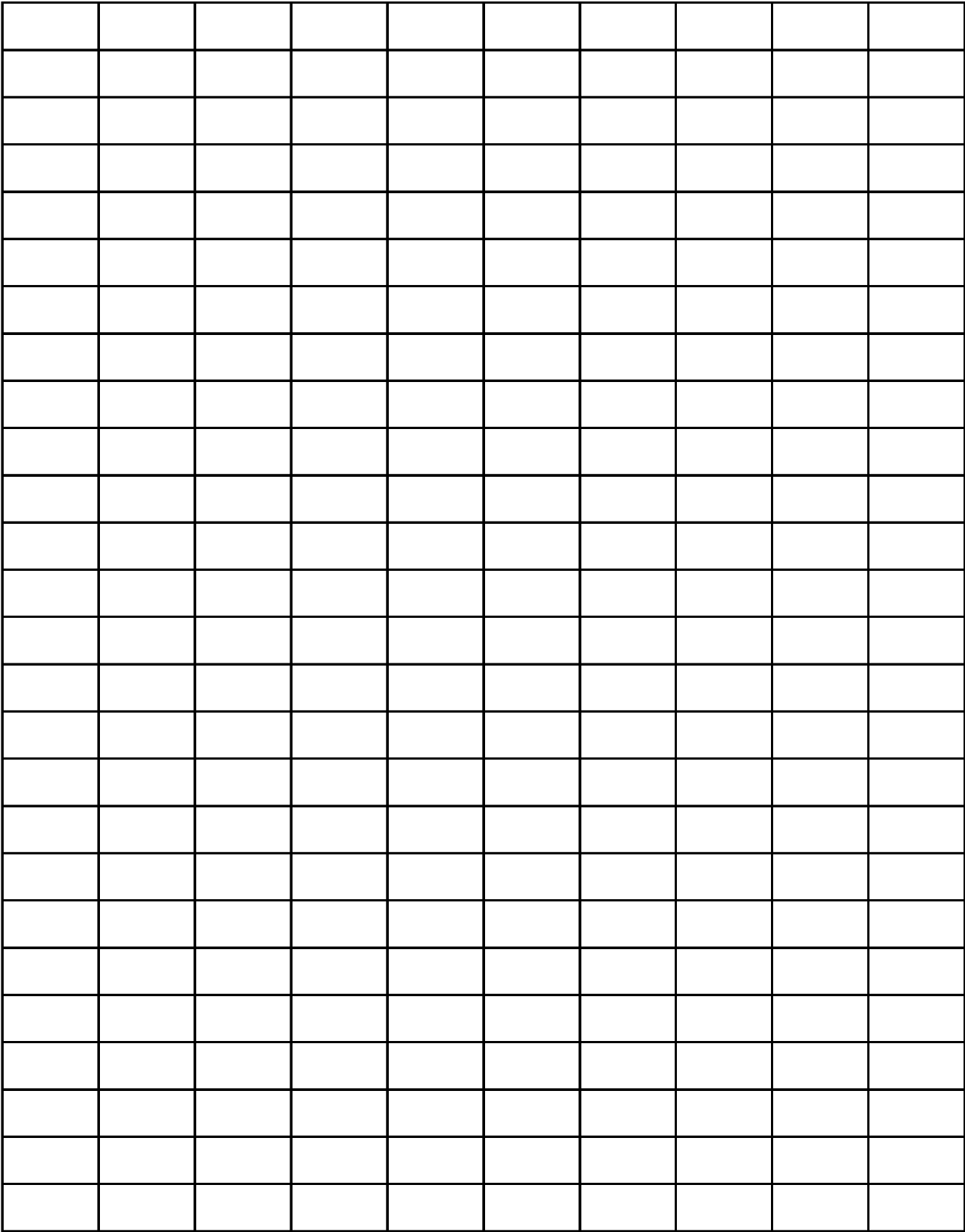
	0.814	12.4							
	0.512	3.62							
	0.204	0.234							
	0.207	0.247							
	0.677	0.135							
	0.418	1.29							
	0.668	0.114							
	0.661	0.078							
	0.299	0.334							
	0.485	0.080							
	0.283	0.634							
	0.604	0.206							
	0.131	0.054							
	1.84	4.02							
	1.21	3.85							
	0.860	0.977							
	0.616	0.300							
	0.597	4.76							
	0.951	5.10							
	1.03	2.39							
	1.24	3.68							
	0.277	0.867							
	0.732	1.16							
	0.692	7.11							
	0.719	1.02							
	0.296	1.13							

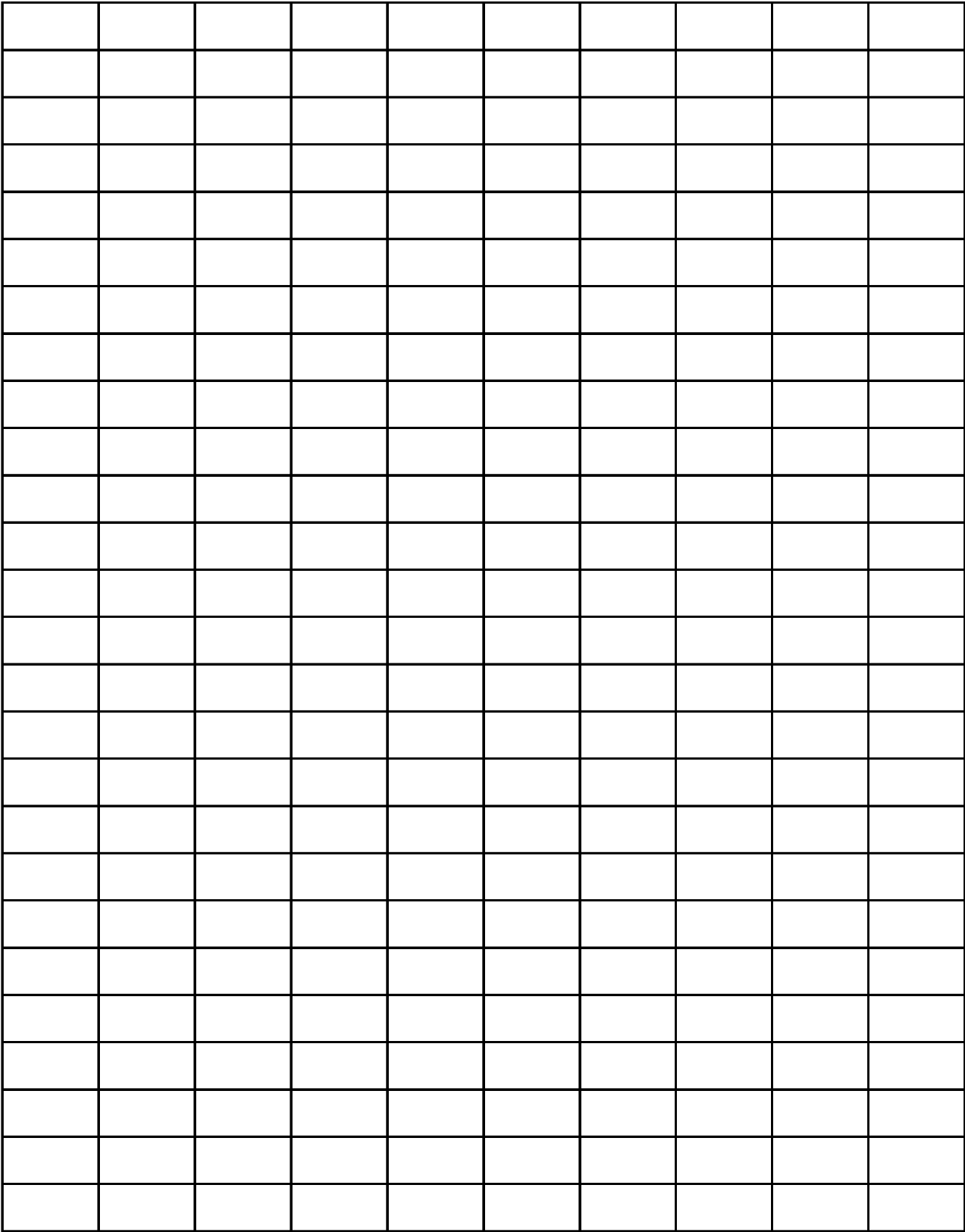
	0.643	0.124							
	0.628	0.091							

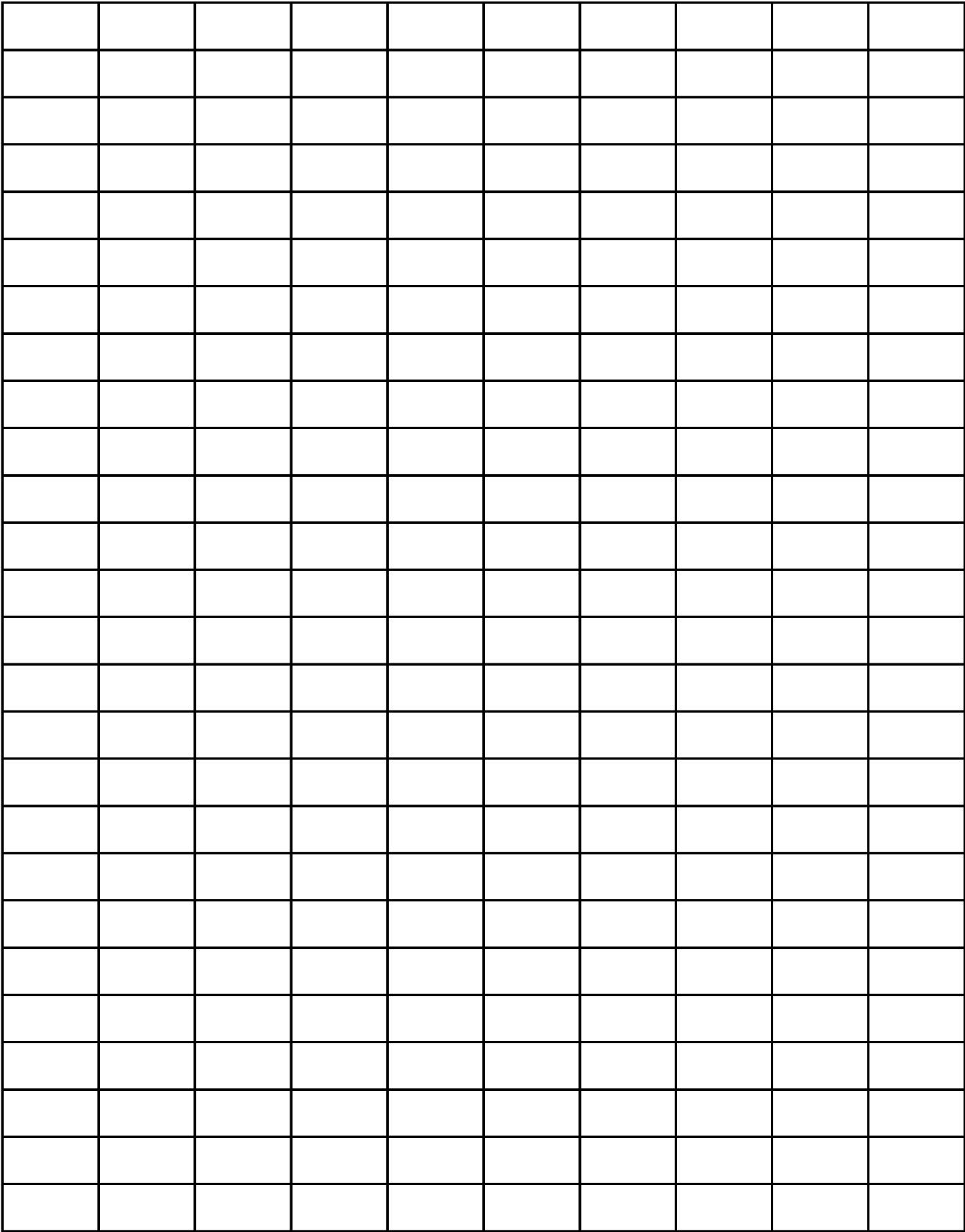
Selen- ium, water, unfltrd ug/L (01147)	Gage height above datum meters (30207)	Dis- charge, instan- taneous m3/s (30209)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, dis- solved, tons/d (70302)	Residue water, fltrd, tons/ acre-ft (70303)	Suspnd. sedi- ment, sieve diametr percent <.063m m (70331)	Suspnd. sedi- ment, falldia dst wat percent <.004m m (70338)	Suspnd. sedi- ment, falldia dst wat percent <.016m m (70340)	Suspnd. sedi- ment, falldia dst wat percent <.063m m (70342)
	0.591	0.112							
	0.149	0.116							
	0.354	1.36							
	0.229	0.351							
	0.192	0.271							
	0.396	2.07							
	0.491	2.95							
	0.375	0.606							
	0.296	0.884							
	0.262	0.714							
	0.558	4.28							
	0.506	3.14							
	0.344	1.58							
	0.305	0.943							
	0.323	1.53							
	0.143	0.225							

Suspnd. sedi- ment, falldia dst wat percent <.125m m (70343)	Suspnd. sedi- ment, falldia dst wat percent <.25m m (70344)	Ammon ia water, unfltrd mg / L (71845)	Iodide water, fltrd, mg / L (71865)	Bromid e water, fltrd, mg / L (71870)	Phos- phorus, water, unfltrd mg / L as PO4 (71886)	Total nitro- gen, water, unfltrd mg / L as NO3 (71887)	Mercur v water, fltrd, ug / L (71890)	Mercur v suspnd sedimn t recover -able, ug / L (71895)	Mercur v water, unfltrd recover -able, ug / L (71900)
		0.01				1.3	< 0.10		
		0.06				1.2			
		0.18				2.4			
		0.09				2.1	< 0.10		
		0.21							
		0.18				3.7	0.70		< 0.1
		0.04				3.6			
		0.08				2.9			
		0.01				2.1			
		0.04				2.7	< 0.10		
		0.03				2.1			

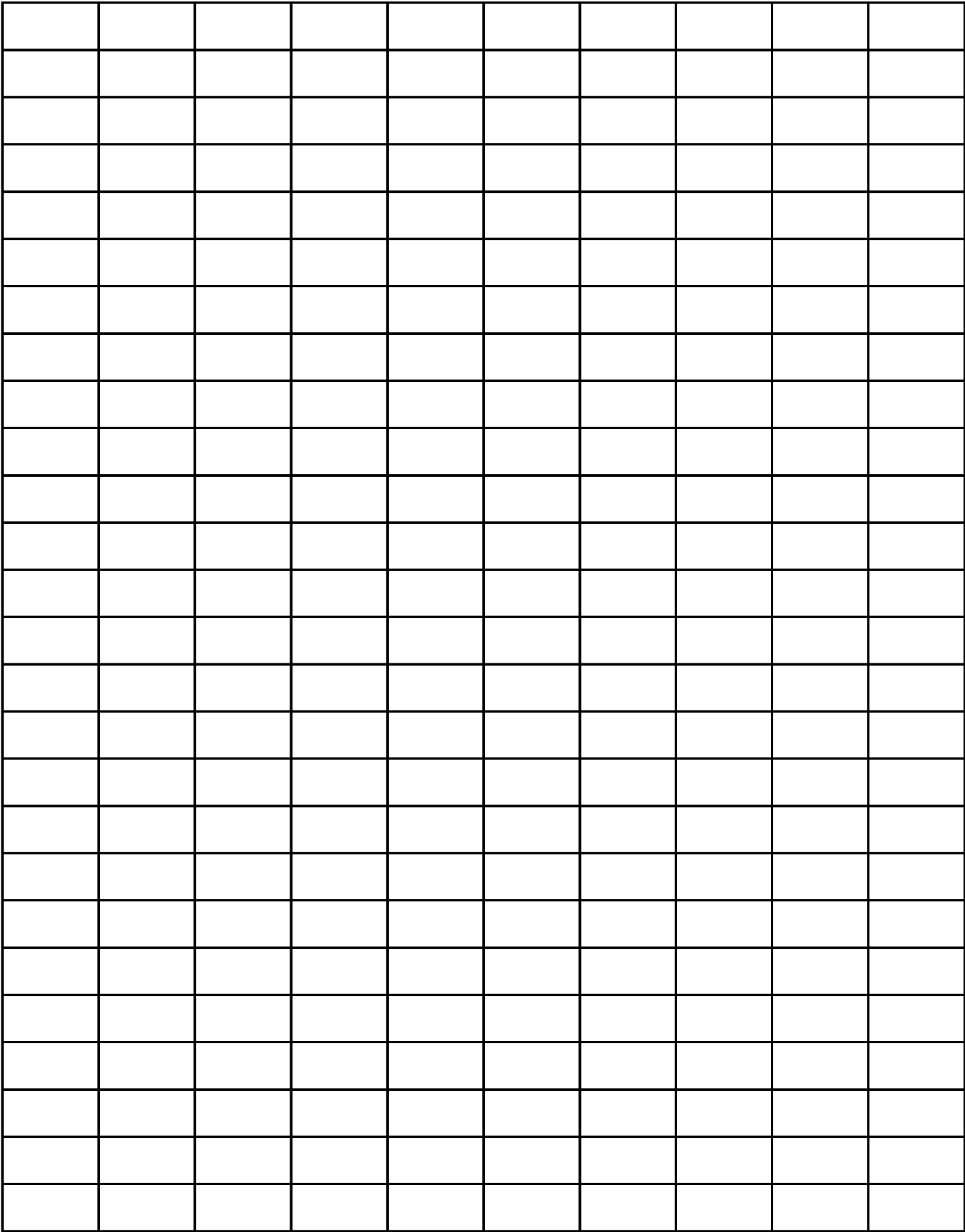
		0.01				2.7			
		0.03	0.000	0.3		1.3			
		0.01				1.2			
		0.03				3.7			
		0.04				3.7			
		0.10				4.6			
		0.08				3.9			
		0.19	0.000	0.1		4.9	< 0.10		< 0.1
		0.04	0.010	0.2		3.5			
		0.01			0.61	4.7			
		0.02			0.09	3.6			
97	100	0.10			0.74	13.0			
		0.12	0.000	0.0	1.5	4.9	< 0.10	0.1	< 0.1
		0.01			0.18	2.0			
		0.05	0.010	0.1	0.09	M	< 0.10	0.0	< 0.1
		0.01	0.000	0.2	0.21	2.2			
		0.05			0.03	2.2			
		0.04			0.06	3.3			
		0.05	0.010	0.2	0.00	5.7			
		0.05			0.06	4.6			
		0.10			0.34	4.0			
		0.05	0.010	0.3	0.12	3.5			
91	100	0.08	0.000	0.1	4.3	18.0	0.00	0.1	0.1
		0.04			2.1	16.0			
		0.05	0.010	0.1	0.43	2.4			
		0.02			0.09	3.3			
		0.02	0.010	0.0	0.06	2.4	0.00	0.0	0.0
		0.01	0.000	0.0	0.03	2.3			
		0.36			0.15	4.5			
		0.22			0.09	11.0			
		0.08			0.12	5.9			
		0.05			0.15	0.9			







[illegible]



[illegible]

Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	K-40, water, fltrd, pCi/L (82068)	Specif. conduc- tance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)
8	0.56				
14	1.1				
32	5.1				
48	8.4				
52	8.1				
3050	29000				
151	122				
296	756				
249	577				
213	521				
68	40				

122	112				
20	8.0				
40	24				
98	46				
122	35				
61	20				
70	40				
1820	16700				
172	292				
381	1040				
94	78				
3210	17000				
3090	37300				
94	64				
98	49				
25	6.6				
33	11				
106	40				
8	1.2				
41	13				
150	72				
98	45				
2920	9540				
2080	7860				
263	254				
76	37				
29	9.7				
11	1.8	4.0	1510	250	
19	3.8	3.8	1940	280	
9	0.95	5.4	2300	360	
28	7.3	2.4	1500	250	
146	75	2.5	1380	240	

[illegible]

[illegible]

Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	K-40, water, fltrd, pCi/L (82068)	Specif. conduc- tance, wat unf lab, uS/cm 25 deaC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Noncar b hard- ness, water, mg/L as CaCO3 (95902)

[illegible]

[illegible]

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Town of Melstone
Preliminary Engineering Report
Water System Improvements

April 2008



Town of Melstone
Preliminary Engineering Report
Water System Improvements

April 2008

Annual Estimates of the Population for Incorporated Places in Montana by County: April 1, 2000 to July 1, 2006									
Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
Montana	944,632	4.7%	934,737	926,920	917,885	910,395	906,098	903,510	902,195
Beaverhead County	8,743	-5.0%	8,778	8,824	8,919	9,000	9,076	9,198	9,202
Dillon city	4,056	8.1%	4,070	4,001	4,036	4,069	4,106	4,151	3,752
Lima town	226	-6.6%	227	229	232	235	238	242	242
Balance of Beaverhead County	4,461	-14.3%	4,481	4,594	4,651	4,696	4,732	4,805	5,208
Big Horn County	13,035	2.9%	13,076	13,076	12,897	12,829	12,817	12,675	12,671
Hardin city	3,514	3.8%	3,513	3,503	3,446	3,420	3,417	3,385	3,384
Lodge Grass town	517	1.4%	519	523	517	515	515	510	510
Balance of Big Horn County	9,004	2.6%	9,044	9,050	8,934	8,894	8,885	8,780	8,777
Blaine County	6,615	-5.6%	6,634	6,673	6,765	6,816	6,824	6,987	7,009
Chinook city	1,296	-6.5%	1,300	1,316	1,335	1,348	1,350	1,382	1,386
Harlem city	804	-5.2%	806	817	828	828	825	845	848
Balance of Blaine County	4,515	-5.4%	4,528	4,540	4,602	4,640	4,649	4,760	4,775
Broadwater County	4,572	4.3%	4,506	4,526	4,418	4,410	4,402	4,372	4,385
Townsend city	1,974	5.7%	1,946	1,958	1,905	1,895	1,885	1,865	1,867
Balance of Broadwater County	2,598	3.2%	2,560	2,568	2,513	2,515	2,517	2,507	2,518
Carbon County	9,903	3.7%	9,895	9,770	9,751	9,727	9,662	9,556	9,552
Bearcreek town	86	3.6%	85	83	84	84	84	83	83
Bridger town	748	0.4%	751	752	752	752	749	744	745
Fromberg town	486	0.0%	492	489	492	492	490	486	486
Joliet town	613	6.6%	600	584	581	581	579	575	575
Red Lodge city	2,455	12.8%	2,400	2,331	2,283	2,263	2,226	2,183	2,177
Balance of Carbon County	5,515	0.5%	5,567	5,531	5,559	5,555	5,534	5,485	5,486
Carter County	1,321	-2.9%	1,320	1,337	1,332	1,359	1,362	1,349	1,360
Ekalaka town	395	-3.7%	395	402	401	409	410	407	410
Balance of Carter County	926	-2.5%	925	935	931	950	952	942	950
Cascade County	79,385	-1.2%	79,490	79,938	79,801	79,742	79,855	80,242	80,357
Belt city	603	-4.7%	610	617	620	622	626	632	633
Cascade town	789	-3.7%	797	800	803	805	811	817	819
Great Falls city	56,215	-0.8%	56,287	56,535	56,414	56,251	56,325	56,628	56,690
Neihart town	88	-3.3%	88	89	89	89	90	91	91
Balance of Cascade County	21,690	-2.0%	21,708	21,897	21,875	21,975	22,003	22,074	22,124
Chouteau County	5,417	-9.3%	5,464	5,546	5,585	5,644	5,772	5,982	5,970
Big Sandy town	637	-9.4%	643	652	658	665	680	704	703
Fort Benton city	1,470	-7.8%	1,476	1,499	1,502	1,515	1,546	1,598	1,594
Geraldine town	255	-10.2%	258	262	265	268	274	285	284
Balance of Chouteau County	3,055	-9.9%	3,087	3,133	3,160	3,196	3,272	3,395	3,389
Custer County	11,151	-4.7%	11,256	11,427	11,353	11,434	11,471	11,666	11,696
Ismay town	25	-3.8%	25	25	25	25	26	26	26
Miles City city	8,083	-4.8%	8,155	8,295	8,240	8,298	8,325	8,466	8,487
Balance of Custer County	3,043	-4.4%	3,076	3,107	3,088	3,111	3,120	3,174	3,183
Daniels County	1,774	-12.0%	1,825	1,847	1,918	1,934	2,014	2,012	2,017
Flaxville town	76	-12.6%	78	79	82	83	87	87	87

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Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
Scobey city	958	-11.5%	985	996	1,033	1,040	1,081	1,079	1,082
Balance of Daniels County	740	-12.7%	762	772	803	811	846	846	848
Dawson County	8,624	-4.8%	8,629	8,657	8,742	8,734	8,917	9,044	9,059
Glendive city	4,643	-1.8%	4,641	4,670	4,710	4,706	4,800	4,869	4,729
Richey town	177	-6.3%	178	179	181	181	186	189	189
Balance of Dawson County	3,804	-8.1%	3,810	3,808	3,851	3,847	3,931	3,986	4,141
Deer Lodge County	8,888	-5.6%	8,986	8,968	8,979	9,072	9,204	9,389	9,417
Anaconda-Deer Lodge County	8,888	-5.6%	8,986	8,968	8,979	9,072	9,204	9,389	9,417
Fallon County	2,717	-4.2%	2,709	2,771	2,768	2,727	2,754	2,812	2,837
Baker city	1,629	-3.9%	1,623	1,663	1,656	1,630	1,645	1,680	1,695
Plevna town	131	-5.1%	131	133	134	132	134	137	138
Balance of Fallon County	957	-4.7%	955	975	978	965	975	995	1,004
Fergus County	11,496	-3.3%	11,503	11,619	11,653	11,677	11,761	11,897	11,893
Denton town	286	-5.0%	287	291	293	294	297	301	301
Grass Range town	146	-2.0%	146	145	146	147	148	149	149
Lewistown city	6,083	4.6%	6,082	6,155	6,172	6,173	6,218	6,294	5,813
Moore town	186	0.0%	186	188	185	184	185	186	186
Winifred town	150	-3.8%	150	151	152	153	154	156	156
Balance of Fergus County	4,645	-12.2%	4,652	4,689	4,705	4,726	4,759	4,811	5,288
Flathead County	85,314	14.6%	83,079	81,114	79,435	77,449	76,100	74,743	74,471
Columbia Falls city	4,676	28.3%	4,435	4,174	3,956	3,835	3,759	3,674	3,645
Kalispell city	19,432	36.6%	18,509	17,423	16,820	15,999	15,511	15,062	14,223
Whitefish city	7,723	53.5%	7,092	6,738	6,396	6,114	5,860	5,684	5,032
Balance of Flathead County	53,483	3.7%	53,043	52,779	52,263	51,501	50,970	50,323	51,571
Gallatin County	80,921	19.3%	78,262	75,632	73,331	71,076	69,795	68,276	67,831
Belgrade city	7,323	27.8%	7,119	7,046	6,832	6,580	6,284	5,844	5,728
Bozeman city	35,061	27.5%	33,584	32,412	30,869	29,514	28,707	27,910	27,509
Manhattan town	1,492	6.9%	1,466	1,484	1,452	1,420	1,417	1,401	1,396
Three Forks city	1,845	6.8%	1,847	1,874	1,819	1,767	1,748	1,733	1,728
West Yellowstone town	1,232	4.7%	1,224	1,234	1,219	1,201	1,184	1,179	1,177
Balance of Gallatin County	33,968	12.1%	33,022	31,582	31,140	30,594	30,455	30,209	30,293
Garfield County	1,244	-2.7%	1,211	1,228	1,240	1,244	1,262	1,268	1,279
Jordan town	353	-3.0%	343	350	353	354	359	361	364
Balance of Garfield County	891	-2.6%	868	878	887	890	903	907	915
Glacier County	13,578	2.5%	13,522	13,527	13,291	13,203	13,129	13,209	13,247
Browning town	1,079	1.3%	1,076	1,085	1,068	1,061	1,056	1,062	1,065
Cut Bank city	3,171	2.1%	3,160	3,160	3,106	3,088	3,073	3,095	3,105
Balance of Glacier County	9,328	2.8%	9,286	9,282	9,117	9,054	9,000	9,052	9,077
Golden Valley County	1,150	10.4%	1,146	1,105	1,054	1,066	1,015	1,023	1,042
Lavina town	234	12.0%	233	224	212	214	202	204	209
Ryegate town	301	12.3%	300	287	272	275	260	262	268
Balance of Golden Valley County	615	8.8%	613	594	570	577	553	557	565
Granite County	2,909	2.8%	2,932	2,894	2,888	2,869	2,880	2,843	2,830

Annual Estimates of the Population for Incorporated Places in Montana by County: April 1, 2000 to July 1, 2006									
Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
Drummond town	325	2.2%	328	324	324	322	324	319	318
Philipsburg town	940	2.8%	948	936	935	926	930	918	914
Balance of Granite County	1,644	2.9%	1,656	1,634	1,629	1,621	1,626	1,606	1,598
Hill County	16,403	-1.6%	16,276	16,343	16,281	16,360	16,532	16,636	16,673
Havre city	9,451	-1.8%	9,377	9,441	9,400	9,441	9,538	9,599	9,621
Hingham town	152	-3.2%	151	153	153	154	155	157	157
Balance of Hill County	6,800	-1.4%	6,748	6,749	6,728	6,765	6,839	6,880	6,895
Jefferson County	11,256	12.0%	11,136	10,863	10,550	10,415	10,221	10,085	10,049
Boulder town	1,445	11.2%	1,432	1,399	1,361	1,345	1,322	1,305	1,300
Whitehall town	1,165	11.6%	1,153	1,134	1,102	1,088	1,068	1,049	1,044
Balance of Jefferson County	8,646	12.2%	8,551	8,330	8,087	7,982	7,831	7,731	7,705
Judith Basin County	2,142	-8.0%	2,170	2,204	2,194	2,256	2,258	2,336	2,329
Hobson city	225	-7.8%	228	231	230	237	237	245	244
Stanford town	417	-8.1%	422	429	427	439	440	455	454
Balance of Judith Basin County	1,500	-8.0%	1,520	1,544	1,537	1,580	1,581	1,636	1,631
Lake County	28,606	7.9%	28,275	27,915	27,370	26,997	26,948	26,633	26,507
Polson city	4,952	22.5%	4,824	4,680	4,521	4,320	4,219	4,131	4,041
Ronan city	2,008	10.8%	1,967	1,948	1,905	1,888	1,864	1,825	1,812
St. Ignatius town	825	4.7%	822	812	799	793	797	792	788
Balance of Lake County	20,821	4.8%	20,662	20,475	20,145	19,996	20,068	19,885	19,866
Lewis and Clark County	59,302	6.4%	58,387	57,932	57,165	56,452	56,246	55,882	55,716
East Helena town	2,068	25.9%	1,860	1,795	1,687	1,649	1,646	1,645	1,642
Helena city	27,885	8.2%	27,369	27,162	26,768	26,350	26,206	25,975	25,780
Balance of Lewis and Clark County	29,349	3.7%	29,158	28,975	28,710	28,453	28,394	28,262	28,294
Liberty County	1,863	-13.7%	1,967	2,035	2,042	2,019	2,102	2,150	2,158
Chester town	757	-13.1%	797	824	826	817	849	868	871
Balance of Liberty County	1,106	-14.1%	1,170	1,211	1,216	1,202	1,253	1,282	1,287
Lincoln County	19,226	2.1%	19,182	19,065	18,899	18,739	18,729	18,842	18,837
Eureka town	1,028	1.1%	1,028	1,021	1,013	1,006	1,007	1,016	1,017
Libby city	2,662	1.4%	2,647	2,648	2,619	2,595	2,601	2,625	2,626
Rexford town	154	2.0%	154	153	152	150	150	151	151
Troy city	994	3.9%	985	975	967	960	962	967	957
Balance of Lincoln County	14,388	2.1%	14,368	14,268	14,148	14,028	14,009	14,083	14,086
McCone County	1,760	-11.0%	1,776	1,789	1,809	1,842	1,900	1,966	1,977
Circle town	569	-11.6%	574	582	589	599	618	640	644
Balance of McCone County	1,191	-10.7%	1,202	1,207	1,220	1,243	1,282	1,326	1,333
Madison County	7,404	8.1%	7,252	7,094	6,941	6,968	6,899	6,872	6,851
Ennis town	1,005	19.6%	970	924	881	857	849	845	840
Sheridan town	699	6.1%	687	676	663	669	663	661	659
Twin Bridges town	424	6.0%	417	410	403	407	403	401	400
Virginia City town	137	5.4%	135	132	130	132	130	130	130
Balance of Madison County	5,139	6.6%	5,043	4,952	4,864	4,903	4,854	4,835	4,822
Meagher County	1,968	1.9%	1,961	2,004	1,969	1,936	1,953	1,932	1,932

Annual Estimates of the Population for Incorporated Places in Montana by County: April 1, 2000 to July 1, 2006									
Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
White Sulphur Springs city	1,002	1.8%	998	1,020	1,003	986	995	984	984
Balance of Meagher County	966	1.9%	963	984	966	950	958	948	948
Mineral County	4,057	4.5%	4,033	3,880	3,870	3,815	3,848	3,883	3,884
Alberton town	438	17.1%	425	404	393	378	382	376	374
Superior town	916	2.6%	914	882	883	873	881	892	893
Balance of Mineral County	2,703	3.3%	2,694	2,594	2,594	2,564	2,585	2,615	2,617
Missoula County	101,417	5.9%	100,033	99,063	98,435	97,792	96,684	96,083	95,802
Missoula city	64,081	12.3%	62,890	61,843	60,717	59,413	58,340	57,550	57,053
Balance of Missoula County	37,336	-3.6%	37,143	37,220	37,718	38,379	38,344	38,533	38,749
Musselshell County	4,586	2.0%	4,474	4,514	4,486	4,460	4,446	4,500	4,497
Melstone town	139	2.2%	136	137	136	135	135	136	136
Roundup city	1,953	1.1%	1,906	1,932	1,922	1,912	1,907	1,932	1,931
Balance of Musselshell County	2,494	2.6%	2,432	2,445	2,428	2,413	2,404	2,432	2,430
Park County	16,084	2.5%	15,965	15,774	15,777	15,833	15,726	15,726	15,694
Clyde Park town	347	11.9%	348	334	331	311	310	311	310
Livingston city	7,279	6.2%	7,146	7,052	7,046	7,047	6,974	6,985	6,851
Balance of Park County	8,458	-0.9%	8,471	8,388	8,400	8,475	8,442	8,430	8,533
Petroleum County	474	-3.9%	462	499	493	487	478	492	493
Winnett town	178	-3.8%	173	187	185	183	179	185	185
Balance of Petroleum County	296	-3.9%	289	312	308	304	299	307	308
Phillips County	4,098	-10.9%	4,135	4,240	4,263	4,353	4,448	4,557	4,601
Dodson town	107	-12.3%	109	112	113	115	118	121	122
Malta city	1,887	-11.0%	1,902	1,957	1,966	2,006	2,049	2,100	2,120
Saco town	199	-11.2%	201	205	207	211	216	222	224
Balance of Phillips County	1,905	-10.8%	1,923	1,966	1,977	2,021	2,065	2,114	2,135
Pondera County	6,032	-6.1%	6,084	6,108	6,193	6,257	6,358	6,375	6,424
Conrad city	2,577	-6.4%	2,599	2,621	2,659	2,686	2,727	2,733	2,753
Valier town	469	-5.8%	471	476	479	484	493	494	498
Balance of Pondera County	2,986	-5.9%	3,014	3,011	3,055	3,087	3,138	3,148	3,173
Powder River County	1,756	-5.5%	1,714	1,766	1,830	1,827	1,815	1,858	1,858
Broadus town	458	1.6%	448	460	476	476	473	484	451
Balance of Powder River County	1,298	-7.7%	1,266	1,306	1,354	1,351	1,342	1,374	1,407
Powell County	6,997	-2.5%	6,968	6,914	6,946	7,040	7,058	7,183	7,180
Deer Lodge city	3,311	-3.2%	3,295	3,264	3,284	3,339	3,349	3,422	3,421
Balance of Powell County	3,686	-1.9%	3,673	3,650	3,662	3,701	3,709	3,761	3,759
Prairie County	1,074	-10.4%	1,090	1,140	1,166	1,187	1,214	1,188	1,199
Terry town	549	-10.1%	556	584	595	605	619	606	611
Balance of Prairie County	525	-10.7%	534	556	571	582	595	582	588
Ravalli County	40,582	12.5%	39,822	39,470	38,739	37,737	36,907	36,341	36,070
Darby town	854	20.3%	833	816	786	751	726	715	710
Hamilton city	4,644	25.3%	4,432	4,353	4,182	3,960	3,843	3,758	3,705
Pinesdale town	841	13.3%	830	831	819	801	771	761	742
Stevensville town	1,914	23.2%	1,850	1,833	1,793	1,730	1,640	1,575	1,553

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Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
Balance of Ravalli County	32,329	10.1%	31,877	31,637	31,159	30,495	29,927	29,532	29,360
Richland County	9,295	-3.8%	9,163	9,077	9,175	9,273	9,443	9,627	9,667
Fairview town	676	-4.7%	670	660	670	679	692	706	709
Sidney city	4,804	0.6%	4,740	4,464	4,522	4,575	4,659	4,753	4,774
Balance of Richland County	3,815	-8.8%	3,753	3,953	3,983	4,019	4,092	4,168	4,184
Roosevelt County	10,496	-1.2%	10,601	10,576	10,416	10,432	10,573	10,628	10,620
Bainville town	151	-1.3%	153	152	150	150	152	153	153
Brockton town	242	-1.2%	245	244	240	241	244	245	245
Culbertson town	714	-0.3%	719	722	706	706	715	717	716
Froid town	201	3.1%	193	193	191	191	194	195	195
Poplar city	900	-1.2%	910	906	894	896	907	912	911
Wolf Point city	2,612	-1.9%	2,643	2,653	2,615	2,619	2,655	2,671	2,663
Balance of Roosevelt County	5,676	-1.1%	5,738	5,706	5,620	5,629	5,706	5,735	5,737
Rosebud County	9,261	-1.3%	9,279	9,227	9,311	9,273	9,270	9,385	9,383
Colstrip city	2,342	-0.2%	2,347	2,343	2,365	2,338	2,327	2,349	2,346
Forsyth city	1,898	-2.4%	1,902	1,902	1,918	1,917	1,920	1,944	1,944
Balance of Rosebud County	5,021	-1.4%	5,030	4,982	5,028	5,018	5,023	5,092	5,093
Sanders County	11,138	8.9%	11,009	10,896	10,515	10,433	10,456	10,252	10,227
Hot Springs town	569	7.2%	563	557	540	537	539	532	531
Plains town	1,252	11.2%	1,239	1,231	1,166	1,148	1,148	1,128	1,126
Thompson Falls city	1,403	6.2%	1,387	1,372	1,328	1,320	1,313	1,292	1,321
Balance of Sanders County	7,914	9.2%	7,820	7,736	7,481	7,428	7,456	7,300	7,249
Sheridan County	3,447	-16.0%	3,517	3,638	3,657	3,806	3,947	4,082	4,105
Medicine Lake town	223	-17.1%	228	237	238	248	258	267	269
Outlook town	69	-15.9%	70	72	73	76	79	82	82
Plentywood city	1,737	-15.7%	1,771	1,836	1,844	1,917	1,984	2,050	2,061
Westby town	144	-16.3%	147	152	153	159	165	171	172
Balance of Sheridan County	1,274	-16.2%	1,301	1,341	1,349	1,406	1,461	1,512	1,521
Silver Bow County	32,801	-5.2%	32,876	33,067	33,222	33,438	33,768	34,526	34,606
Butte-Silver Bow (balance)	32,110	-5.3%	32,180	32,368	32,532	32,749	33,072	33,814	33,892
Walkerville town	691	-3.2%	696	699	690	689	696	712	714
Stillwater County	8,646	5.5%	8,468	8,428	8,447	8,454	8,376	8,224	8,195
Columbus town	1,931	10.5%	1,892	1,890	1,879	1,856	1,820	1,762	1,748
Balance of Stillwater County	6,715	4.2%	6,576	6,538	6,568	6,598	6,556	6,462	6,447
Sweet Grass County	3,760	4.2%	3,698	3,697	3,615	3,623	3,606	3,635	3,609
Big Timber city	1,768	7.2%	1,737	1,744	1,702	1,704	1,679	1,668	1,650
Balance of Sweet Grass County	1,992	1.7%	1,961	1,953	1,913	1,919	1,927	1,967	1,959
Teton County	6,115	-5.1%	6,174	6,258	6,382	6,318	6,410	6,438	6,445
Choteau city	1,710	-4.0%	1,721	1,751	1,777	1,759	1,776	1,782	1,781
Dutton town	363	-6.7%	368	375	383	380	386	388	389
Fairfield town	635	-3.6%	642	638	650	644	655	658	659
Balance of Teton County	3,407	-5.8%	3,443	3,494	3,572	3,535	3,593	3,610	3,616
Toole County	5,073	-3.7%	5,174	5,143	5,215	5,321	5,303	5,261	5,267

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Geographic Area	Population Estimates								April 1, 2000 Census
	July 1, 2006	Percent Change 2000-2006	July 1, 2005	July 1, 2004	July 1, 2003	July 1, 2002	July 1, 2001	July 1, 2000	
Kevin town	144	-19.1%	153	160	166	175	178	177	178
Shelby city	3,419	6.3%	3,420	3,304	3,304	3,304	3,255	3,219	3,216
Sunburst town	336	-19.0%	356	371	386	408	414	413	415
Balance of Toole County	1,174	-19.5%	1,245	1,308	1,359	1,434	1,456	1,452	1,458
Treasure County	680	-21.0%	694	736	744	776	820	855	861
Hysam town	259	-21.5%	264	282	285	297	314	328	330
Balance of Treasure County	421	-20.7%	430	454	459	479	506	527	531
Valley County	6,995	-8.9%	7,144	7,243	7,299	7,397	7,533	7,639	7,675
Fort Peck town	223	-7.1%	228	231	228	231	235	239	240
Glasgow city	2,960	-9.0%	3,019	3,073	3,096	3,137	3,193	3,238	3,253
Nashua town	296	-8.9%	303	306	309	313	319	324	325
Opheim town	101	-9.0%	103	104	105	107	109	110	111
Balance of Valley County	3,415	-8.8%	3,491	3,529	3,561	3,609	3,677	3,728	3,746
Wheatland County	1,959	-13.3%	2,025	2,063	2,101	2,168	2,161	2,252	2,259
Harlowton city	899	-15.3%	935	955	975	1,011	1,008	1,058	1,062
Judith Gap city	139	-15.2%	144	148	151	157	156	164	164
Balance of Wheatland County	921	-10.8%	946	960	975	1,000	997	1,030	1,033
Wibaux County	909	-14.9%	944	974	983	1,001	1,018	1,073	1,068
Wibaux town	485	-14.5%	502	519	523	533	541	570	567
Balance of Wibaux County	424	-15.4%	442	455	460	468	477	503	501
Yellowstone County	138,213	6.9%	136,586	134,806	133,265	131,898	130,572	129,570	129,352
Billings city	100,148	11.5%	98,666	97,041	95,434	94,055	92,801	91,889	89,847
Broadview town	150	0.0%	150	149	150	150	150	150	150
Laurel city	6,421	2.7%	6,337	6,343	6,330	6,313	6,295	6,262	6,255
Balance of Yellowstone County	31,494	-4.9%	31,433	31,273	31,351	31,380	31,326	31,269	33,100
Note: The April 1, 2000 estimates base reflects changes to the Census 2000 population resulting from legal boundary updates as of January 1 of the estimates year, other geographic program changes, and Count Question Resolution actions. All geographic boundaries for the July 1, 2006 population estimates series are defined as of January 1, 2006. An "(X)" in the Census 2000 field indicates a locality that was formed or incorporated after Census 2000 or was erroneously omitted from Census 2000. Additional information on these localities can be found in the Geographic Change Notes (see "Boundary Changes" under the Geographic Topics section of the Estimates page).									
Suggested Citation: Annual Estimates of the Population for Incorporated Places in Montana, by County: April 1, 2000 to July 1, 2006 Source: Population Division, U.S. Census Bureau Release Date: June 28, 2007									

UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Utilities Service

BULLETIN 1780-2

SUBJECT: Preliminary Engineering Report – Water Facilities

TO: Rural Development State Directors, RUS Program Directors, State Engineers

EFFECTIVE DATE: Date of approval.

OFFICE OF PRIMARY INTEREST: Environmental and Engineering Staff, Water and Environmental Programs

INSTRUCTIONS: This bulletin replaces previous RUS Bulletin 1780-2.

AVAILABILITY: This bulletin is available on the Rural Utilities Services' website at www.usda.gov/rus/water.

PURPOSE: This Bulletin provides applicants and their consultants with instructions on how to prepare a Preliminary Engineering Report for a water system application.



GARY J. MORGAN
Assistant Administrator
Water and Environmental Programs

September 10, 2003

Date

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Application Document
Preliminary Engineering Report
Project Planning
Water Facility

ABBREVIATIONS

O&M – Operations and Maintenance
PER – Performance Engineering Report
RUS – Rural Utilities Service

1 GENERAL

A Preliminary Engineering Report (PER) should clearly describe the owner's present situation, analyze alternatives, and propose a specific course of action from an engineering perspective. The level of effort required to prepare the report and the depth of analysis within the report are proportional to the size and complexity of the proposed project. Rural Utilities Service (RUS) projects must be modest in design, size and cost, and be constructed and operated in an environmentally responsible manner. Pursuant to 7 CFR Part 1794, guidance in RUS Bulletin 1794A-602, "Guide for Preparing the Environmental Report for Water and Waste Projects", and the Agency's environmental State Supplement, the applicant shall perform the environmental review concurrently with the project engineering planning. This document must indicate that environmental issues were considered as part of the engineering planning. Information provided in the PER will be used to process the funding request, therefore completeness and accuracy are essential for timely processing of the application. Other outlines may be utilized, but the essential information must be readily identifiable. Contact the Rural Development office for further guidance. The following should be used as a guide for the preparation of PERs for RUS financed water systems.

2 PROJECT PLANNING AREA

Describe the area under consideration. The project planning area may be larger than the service area determined to be economically feasible. Service may be provided by a combination of central, cluster, or individual facilities. The description should include information on the following:

- a Location. Maps, photographs, and sketches. These materials should indicate legal and natural boundaries, major obstacles, elevations, etc.
- b Environmental Resources Present. Maps, photographs, studies and narrative. This section should provide information on the location and significance of important land resources (farmland, rangeland, forestland, wetlands and 100/500 year floodplains, including stream crossings), historic sites, endangered species/critical habitats, etc., that were identified in the applicant's environmental information (normally an Environmental Report) and that must be considered in project planning. A narrative summary with reference to the applicant's environmental submittal is adequate.
- c Growth Areas and Population Trends. Specific areas of concentrated growth should be identified. Population projections for the project planning area and concentrated growth areas should be provided for the project design period (typically 20-years). These projections should be based on historical records with justification from recognized sources.

3 EXISTING FACILITIES

Describe the existing facilities including at least the following information:

- a Location Map. Provide a schematic layout and general service area map (may be identified on project planning area maps).
- b History. Provide a brief description of when major system components were constructed or renovated.
- c Condition of Facilities. Describe present condition; suitability for continued use; adequacy of water supply; and, the treatment, storage, and distribution capabilities of any existing central facilities. Note the quantity of unaccounted for water. Also, describe compliance with Safe Drinking Water Act and applicable State requirements.
- d Financial Status of any Existing Facilities. (Note: Owner will be submitting most recent audit or financial statement as part of the application package.) Provide information regarding current rate schedules, annual operations and maintenance (O&M) cost, other capital improvement programs, and tabulation of users by monthly usage categories for the most recent typical fiscal year. Give status of existing debts and required reserve accounts.

4 NEED FOR PROJECT

Describe the needs in the following order of priority:

- a Health, Sanitation, and Security. Describe concerns and include relevant regulations and correspondence from/to Federal, and State regulatory agencies.
- b System O&M. Describe the concerns and indicate those with the greatest impact. Investigate water loss, management adequacy, inefficient designs, and problem elimination prior to adding additional capacity.
- c Growth. Describe the reasonable growth capacity that is necessary to meet needs during the planning period. Facilities proposed to be constructed to meet future growth needs should generally be supported by additional revenues. Consideration should be given to designing for phased capacity increases. Provide number of new customers committed to this project.

5 ALTERNATIVES CONSIDERED

This section should contain a description of the reasonable alternatives that were considered in planning a solution to meet the identified need. Documentation of alternatives considered is often a PER weakness. The following alternatives should be considered, if practicable: building new centralized facilities, optimizing the current facilities (no construction), interconnecting with other existing systems, and developing

centrally managed small cluster or individual facilities. These alternatives should be consistent with those considered in the environmental review. Mitigation measures necessary to avoid or minimize any adverse environmental effects must be integrated into project design. The description should include the following information on each alternative:

- a Description. Describe the facilities associated with the alternative. Describe all feasible water supply sources and provide comparison of such sources. Also, describe treatment, storage and distribution facilities.
- b Design Criteria. State the design parameters used for evaluation purposes. These parameters must comply with RUS design policies (7 CFR 1780.57) and state regulatory requirements.
- c Map. Schematic layout.
- d Environmental Impacts. Do not duplicate the information in the applicant's submittal of environmental information. Describe only those unique direct and indirect impacts on floodplains, wetlands, other important land resources, endangered species, historical and archaeological properties, etc., as they relate to a specific alternative. RUS must conduct an environmental assessment prior to project approval.
- e Land Requirements. Identify sites and easements required. Further specify whether these properties are currently owned, to be acquired, or leased.
- f Construction Problems. Discuss concerns such as subsurface rock, high water table, limited access, or other conditions which may affect cost of construction or operation of facility.
- g Cost Estimates. Provide cost estimates for each alternative, including a breakdown of the following costs:
 - (1) Construction.
 - (2) Non-Construction.
 - (3) Annual Operations and Maintenance.
- h Advantages/Disadvantages. Describe how the specific alternative meets the owner's needs with respect to financial, managerial, and operational resources. Explain how the proposal complies with regulatory requirements and existing comprehensive area-wide development plans. Explain how the proposal satisfies public and environmental concerns.

6 SELECTION OF AN ALTERNATIVE

- a Present Worth (life cycle) cost analysis (an engineering economics technique to evaluate present and future costs for comparison of alternatives) should be completed to compare the feasible alternatives. All of the items from the cost estimate should be included in the analysis. The “real” federal discount rate from Appendix C of OMB Circular A-94 should be used for determining the present worth of the uniform series of O & M values (in today’s dollars) and the salvage value. A 20-year real interest rate may be interpolated as the average of the 10-year and 30-year rates on the web page at:
www.whitehouse.gov/omb/circulars/a094/a94_appx-c.html.
- b A matrix rating system could be useful in displaying the information on each alternative.
- c Note that if the range of present worth values is small, then non-monetary factors should be considered in determining which alternative should be selected.

7 PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)

This section should contain a fully developed description of the proposed project based on the preliminary description under the evaluation of alternatives. At least the following information should be included:

- a Project Design.
 - (1) Water Supply. Include requirements for quality and quantity. Describe recommended source, including site.
 - (2) Treatment. Describe process in detail and identify location of plant and site of any process discharges. Identify capacity of treatment plant (e.g. Maximum Daily Demand).
 - (3) Storage. Identify size, type and location.
 - (4) Pumping Stations. Identify size, type, location and any special power requirements.
 - (5) Distribution Layout. Identify general location of line improvements: lengths, sizes and key components.
- b Total Project Cost Estimate. Provide an itemized estimate of the project cost based on the stated period of construction. Include development and construction, land and rights, legal, engineering, interest, equipment, contingencies, refinancing, and

other costs associated with the proposed project. The engineer may rely on the owner for estimates of cost for items other than construction, equipment, and engineering. (For projects containing both water and waste disposal systems, provide a separate cost estimate for each system.)

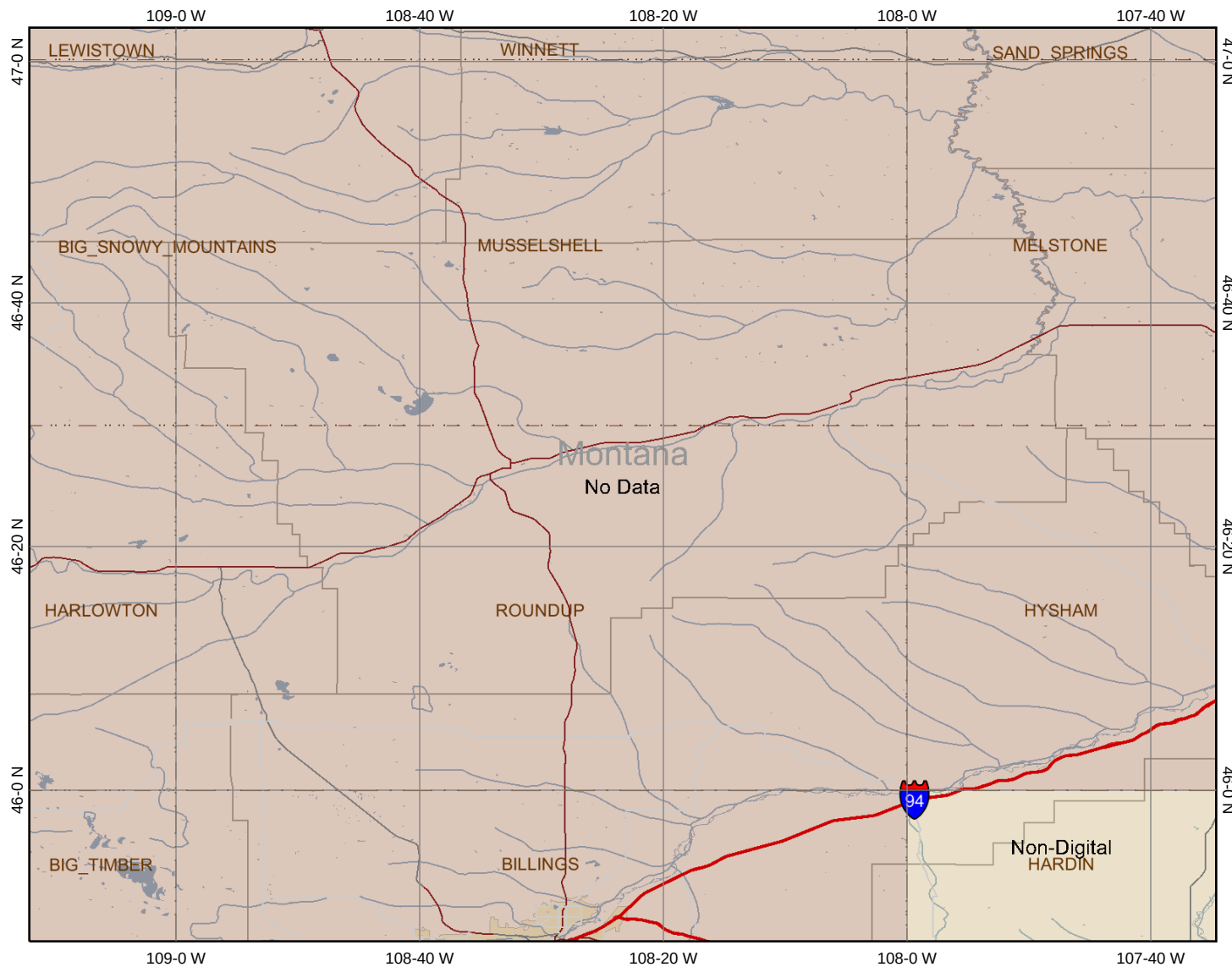
- c Annual Operating Budget. Provide itemized annual operating budget information. The owner has primary responsibility for the annual operating budget, however, there are other parties that provide assistance. This information will be used to evaluate the financial capacity of the system. The engineer will incorporate information from the owner's accountant and other known technical service providers.
- (1) Income. Provide a proposed rate schedule. Project income realistically for existing and proposed new users separately, based on existing user billings, water treatment contracts, and other sources of income. In the absence of historic data or other reliable information, for budget purposes, base water use on 60 gallons per capita per day, or 150 gallons per residential-sized connection per day, or 4,500 gallons per residential-sized connection per month. When large agricultural or commercial users are projected, the report should identify those users and include facts to substantiate such projections and evaluate the impact of such users on the economic viability of the project.
 - (2) Operations and Maintenance (O&M) Costs. Project costs realistically. Provide actual costs for existing systems and projected costs for operating the system as improved. In the absence of other reliable data, base on actual costs of other existing facilities of similar size and complexity. Include facts in the report to substantiate operation and maintenance cost estimates. Include salaries, benefits, water purchase, taxes, accounting and auditing fees, legal fees, interest, utilities, oil and fuel, insurance, annual repairs and maintenance, supplies, chemicals, office supplies, printing, and miscellaneous.
 - (3) Debt repayments. Describe existing and proposed financing from all sources. All estimates of RUS funding should be based on loans, not grants. RUS will evaluate the proposed project for the possible inclusion of RUS grant funds.
 - (4) Reserves. Describe the existing and proposed loan obligation reserve requirements for the following:
 - Debt Service Reserve - Unless otherwise required by State statute, the debt service reserve should be established at one-tenth (1/10) of annual debt repayment requirement (amount of debt that must be repaid to government in a given fiscal year).
 - Short-Lived Asset Reserve - Additional reserve amounts may be needed to provide for timely replacement of short-lived assets. Prepare a schedule of short-lived assets and a recommended annual

reserve deposit to fund replacement of short-lived assets, such as pumps, paint, and small equipment. Short-lived assets include those items not covered under O&M, however, this does not include long-lived assets such as a water tank or treatment facility replacement that should be funded with long-term financing.

8 CONCLUSIONS AND RECOMMENDATIONS

Provide any additional findings and recommendations that should be considered in development of the project. This may include recommendations for special studies, highlight the need for special coordination, a recommended plan of action to expedite project development, etc.

Melstone - Wetlands Mapping



Map center: 46°25' N, 108°23' W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Major Cities
- USGS Quad Index 100K
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Waterbodies
- LAKE/POND
- RESERVOIR
- STREAM/RIVER
- Streams 2M
- Counties 100K
- Urban Areas 300K
- States 100K
- South America
- North America



Scale: 1:974,035

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Notes: No Wetlands Data Available for Melstone

WELL #1

WELL #2

WELL #6T