

# ENVIRONMENTAL INFORMATION DOCUMENT

April 17, 2013



## CLEARWATER WATER DISTRICT

Clearwater, Idaho

<p>Thomas, Dear &amp; Hoskins, Inc. <b>TD&amp;H</b> Engineering Consultants</p>		<p><i>Great Falls • Bozeman • Kalispell, Montana Spokane, Washington • Lewiston, Idaho</i></p>
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Job No. L11-017

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# Section A: Cover Sheet

## CLEARWATER WATER DISTRICT WATER SYSTEM IMPROVEMENT PROJECT

### Owner/Applicant

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### Project & Environmental Review Contact

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### Estimated Construction Costs:

Transmission and distribution system	\$508,300
Treatment	\$0
Storage	\$54,400
Source (groundwater wells)	\$128,300
<u>Engineering, administration &amp; legal</u>	<u>\$246,000</u>
Total Estimated Cost	\$937,000

### Funding:

DEQ Share	\$544,000
CDBG Share	\$350,000
<u>Clearwater Water District Share</u>	<u>\$43,000</u>
Total Funding	\$937,000

**Type of Environmental Document:** Stand-Alone Document

### Estimated User Costs

A.	Current Average Monthly User Charge per EDU	\$70
B.	Change in Operation & Maintenance Monthly Charge per EDU	\$0
C.	Change in Debt Service Monthly Charge per EDU	\$30
D.	Future Average Monthly User Charge per EDU (A+B+C)	\$100
E.	Number of Users	48

### Abstract

This Environmental Information Document (EID) discusses the purpose and need for the Clearwater Water District's (District) proposed project and also provides descriptions of all alternatives that were evaluated. These alternatives include treatment plant modifications with continued use of the current surface water supply source, drilling new wells in order to have a groundwater supply source, constructing a second distribution

system for domestic only water supply, and a No Action alternative. The recommended water system improvement project consists of drilling two new groundwater wells for Clearwater's domestic-only water supply, while continuing to use Wall Creek surface water for their non-domestic water supply. The project also proposes to construct a new small diameter distribution system for transmission of domestic only water. The existing distribution system will continue to be used for transmission of non-domestic water. Scoping letters were sent to environmental agencies for review and consultation on the proposed improvement project. As a result, an archaeological survey was requested. This survey was completed in June of 2012 by archeologists with the Nez Perce Tribe.

A previous Environmental Information Document was prepared in 2007 by USKH for inclusion with the Engineering Report Addendum for Water System Improvements – Filtration Plant Improvements. Much of the required information for this EID remains unchanged since the 2007 submittal and is referenced as such. Excerpts from this EID are provided in Appendix C.

## **Section B: Purpose and Need for the Proposed Project**

### **PURPOSE AND NEED**

The purpose of the proposed project is to protect public health and safety by addressing the deficiencies (per Idaho Rules for Public Drinking Water Systems) identified and analyzed in the Water Study Plan.

The Clearwater Water District owns and operates a water supply service which provides domestic and irrigation/livestock water to 48 connections. The system is supplied by surface water from an intake structure at Wall Creek. The existing water system was first constructed in 1948, with significant improvements being made in 1983. Since then, only minor maintenance improvements for emergency situations have been made. Water supplied by the Clearwater Water District has exceeded or equaled the maximum contaminant level (MCL) for Disinfection By-Products (DBP) in all monitoring reports since 2007. Also, Idaho DEQ records indicate there have been 108 turbidity violations at the plant since 2007. The District has been unable to consistently meet the requirements of the Idaho Rules for Drinking Water, IDAPA 58.01.08., resulting in the Stipulated Judgment and Order, Case Number CV-04-35807. A copy of the cited violations, the court order and additional system deficiencies are included in Appendix B.

The proposed project addresses the public health and safety concerns posed by high disinfection by products and turbidity identified in the water supply.

### **ADDITIONAL INFORMATION ON SYSTEM BACKGROUND AND DEFICIENCIES**

The Clearwater Water District currently provides domestic and irrigation/livestock water to 48 connections. The system is supplied by surface water through an intake structure at Wall Creek. From the intake, the water is piped over a mile north to the treatment plant which consists of a roughing filter, mixed media pressure filter, and chlorine feed pump for disinfection. From the plant, the water is piped approximately one mile north to a 40,000 gallon reservoir. The water is then gravity fed to over 40,000 lineal feet of distribution mains and service lines. A map of the existing system is provided in Appendix A.

The existing water system was first constructed in 1948, with significant improvements being made in 1983. Since then, only minor maintenance improvements for emergency situations have been made. In part because of the aging system the District has been unable to consistently meet the increasingly rigorous requirements of the *Idaho Rules for Drinking Water*, IDAPA 58.01.08. They have had numerous violations in regard to high turbidity levels, and exceedances of disinfection by-products (DBPs). As a result they have been under court order since 2005 to bring their system into compliance. A copy of this court order is included in Appendix B.

Disinfection By-Products (DBPs) pose a risk to public health. DBPs are created when organic compounds combine with certain disinfection products, including chlorine.

Studies have linked DBP's to certain types of cancer and birth defects. To protect public health, drinking water regulations set Maximum Contaminant Levels (MCL) for DBPs, including total trihalomethanes (TTHM) and haloacetic acid (HAA5). The Clearwater Water District has exceeded or equaled the MCL for HAA5 in all monitoring reports since 2007 and has been close to the MCL for TTHM.

In addition to high DBP levels, Clearwater Water District also has problems with high turbidity. Turbidity is a measure of the amount of total suspended solids (TSS) in the water and is an indicator of water quality and filtration success. Higher turbidity levels can be linked with high levels of microorganisms such as parasites, bacteria and viruses. In order to protect public health, systems that use conventional or direct filtration cannot have turbidity levels greater than 1 nephelometric turbidity unit (NTU), and samples for turbidity must be less than or equal to 0.3 NTU in at least 95 percent of the samples in any month. Systems that use filtration other than the conventional or direct filtration must follow state limits, which must include turbidity at no time exceeding 5 NTU. Since 2007 Idaho DEQ records indicate there have been 108 turbidity violations at the plant. Copies of the violations are included in Appendix B.

In addition to the above mentioned DBP and turbidity violations, the 2011 sanitary survey of the water system completed by DEQ identified deficiencies in their treatment, storage, and distribution system. These include:

### **Significant Deficiencies (from Sanitary Survey)**

#### **Storage**

1. The manhole access for the 8,000 gallon storage tank does not have a cover that is water tight and the cover is not hinged on one side.
2. The 8,000 gallon storage tank has an overflow that does not have vertical section of pipe at least two (2) pipe diameters in length, as required by IDAPA 58.01.08.554.06.b.
3. The 8,000 gallon storage tank hatch does not prevent access by insects and other potential contamination sources, as required by IDAPA 58.01.08.550.08h.
4. The 8,000 gallon storage tank and the 40,000 gallon storage tank do not have year-round access, as required by IDAPA 58.01.08.008b.

#### **Distribution**

1. The system may be leaking 15% or more water, in noncompliance with IDAPA 58.01.08.542.10.
2. All dead end water mains are not equipped with a means to flush, as required by IDAPA 58.01.08.42.09.
3. There is no cross connection control program for the public water system, as required by IDAPA 58.01.08.552.06.

#### **Treatment**

1. Cross-connection control is not provided on the service water lines that discharge to the solution tanks, as required by IDAPA 58.01.08.531.02.f.i.
2. All threaded non-sample taps are not equipped with an appropriate backflow prevention device, as required by IDAPA 58.01.08.541.01.n.

3. Adequate ventilation is not provided in the treatment building for the dissipation of excess heat and moisture from the equipment, as required by IDAPA 58.01.08.541.01.e. At the time of the inspection there was evidence of corrosion of metallic components from excessive heat and/or moisture.

#### Disinfection

1. There is no auxiliary power on-site for the chlorine chemical pump, as required by IDAPA 58.01.08.501.07.

### **Deficiencies (from Sanitary Survey)**

#### Storage

1. For the 8,000 gallon storage reservoir, one or more of the overflows are not brought down to an elevation between 12 and 24 inches above the ground surface, as required by IDAPA 58.01.08.544.06.
2. The overflow for the 8,000 gallon reservoir does not discharge over a drainage inlet structure or splash plate, as required by IDAPA 58.01.08.544.06.
3. One or more of the overflows for the 40,000 gallon storage reservoir are not brought down to an elevation between 12 and 24 inches above the ground surface, as required by IDAPA 58.01.08.544.06.
4. The 40,000 gallon storage reservoir, which provides pressure directly to the distribution system, is not designed so that it can be isolated from the distribution system without causing a loss of pressure in the distribution system, as required by IDAPA 58.01.08.546.02.
5. The vent for the 40,000 gallon storage reservoir does not open downward, as required by IDAPA 58.01.08.544.08.d.

### **Recommended Improvements (from Sanitary Survey)**

#### Storage

1. Storage Tank Water Level Measurement – At the time of the inspection the Public Drinking Water System (PWS) does not have a means to measure the water level in the storage unit (40,000 gallon reservoir). DEQ recommends the PWS provide the operator with the ability to easily monitor and measure the water level in the storage unit.

A complete copy of the 2011 sanitary survey is included in Appendix B.

Because of the numerous violations and deficiencies over the past years, this improvement project has become a top priority for the District and for the State of Idaho.

## **Section C: Alternatives Including the Proposed Action**

The scope of work for the planning project included conceptual level evaluation of numerous alternatives, recommendation of three alternatives for further analysis and consideration, detailed evaluation of the three alternatives, and final recommendation of a proposed alternative for water system improvements.

### **DEVELOPMENT AND INITIAL SCREENING OF ALTERNATIVES**

This section discusses the various alternatives that were developed and evaluated for the Clearwater Water District at a conceptual level.

#### **Alternative 1 - Utilize Existing Distribution System with Membrane Filtration System**

This alternative consists of utilizing the existing distribution system for all water demands (domestic and irrigation) and installing a membrane filtration system at the plant to address issues with high levels of DBP's. The process uses pressure to force water through a membrane which blocks the passage of some constituents while allowing water and others to pass through. The particles of organic carbon and DBP precursors in the raw water are larger than the particles of water, thus the larger organic carbon particles are retained on the filter allowing the purer water to flow through.

The membrane filter will have to be backwashed and the backwash water returned to an evaporation pond. It is assumed that expansion of the existing backwash pond will be needed. A liner may be required, but if it is not, substantial savings could be realized.

In the case of the Clearwater Water District, filtration can be used to filter out organic materials prior to chlorination, thus reducing the amount of precursors in the raw water. This alternative includes continued use of the existing filtration as pretreatment for the membrane system. The pretreatment will reduce the operational expenses required for the membrane equipment.

This alternative will require the operator be trained in maintaining and backwashing the new membrane filters. Every 5 to 10 years, the filters will have to be completely replaced, depending on the amount of organics in the raw water. Pre-filters will be needed ahead of the membrane which will need to be replaced a few times per year. Clean-in-place requirements will add the need for chemicals to keep the filters clean and is anticipated to occur 2 to 4 times per year.

The existing building is too small to house a new membrane filtration system, thus a new building constructed adjacent to the current building is proposed in this alternative.

#### **Alternative 2 - Dual Distribution System with Smaller Membrane Filtration System**

This alternative is similar to Alternative 1 with the exception that the membrane filtration is much smaller since it will be used only for domestic demands through the small diameter mains.

All irrigation water will be provided through the existing system but will not receive membrane filtration. Only water used for human consumption needs to adhere to the requirements of federal and state regulations for drinking water. Irrigation water and water used for line flushing and other non-potable uses does not need to be treated. This configuration allows for much smaller treatment equipment since domestic demands are very small compared to total peak demands. The maximum daily domestic demands are likely on the order of 15 gpm whereas the total maximum daily demands are about 165 gpm. Smaller equipment will also cost less to install and significantly less for power, operation and maintenance.

Included in this alternative is constructing a distribution system to be used only for domestic water demands. The new pipe would be “pulled” small diameter (2-inch to 3-inch) HDPE pipe. The existing 4-inch and 6-inch pipes would remain in place and be used solely for irrigation demands. A separate smaller service line would be installed for each home or business for their domestic use. These small diameter pipes can be pulled or bored in some locations, eliminating the need to excavate for installation, thus surface disturbance and restoration will be kept at a minimum.

There are minor changes in operational requirements for the distribution system improvements. This alternative would create two parallel distribution systems. One advantage of this alternative is that the non-domestic water system would be less critical to maintain in service. Each time a break occurs on a typical system providing domestic water, it is very disruptive and time consuming because of the operational problems associated with line breaks on public drinking water systems. Converting the existing distribution lines to irrigation only should reduce the urgency of repairs compared with the current condition. The new small diameter system should be very reliable and low maintenance for many years.

In this alternative the existing 40,000 gallon concrete ground level tank will be dedicated for water which will be needed for peak irrigation and other non-potable water demands. The proposed domestic distribution system will also need a reservoir to provide water during peak demands. This alternative includes a 20,000 gallon reservoir with pump package which will be able to meet peak instantaneous demands. During the design a more thorough analysis will need to be conducted to determine the exact size of a new tank and pump package.

### **Alternative 3 - Utilize Existing Distribution System with Two New Ground Water Wells**

This alternative consists of utilizing the existing distribution system and drilling two new ground water wells. The existing plant would no longer be needed and could be abandoned.

A ground water study was performed by Wyatt & Associates in 2010 that evaluated the feasibility of finding a ground water source to provide for the water demands of the

District. Their conclusion was that *“Reviewing the water well data supplied by the IDWR and discussing the geology and potential for ground water in the area with local well drillers, the potential for wells for 40 to 60 gpm is positive and deserves further investigation”*.

Their suggestion was to drill two or three test wells to municipal standards. If the water is found to be adequate, they can be converted for use by the District. The ground water study found the greatest potential for locating a well of 50 to 100 gpm was in the area adjacent to the present water plant and in the center of the district near the main street area of Clearwater. 450 to 700 feet deep, 8-inch wells are recommended which would allow the District to use them as a production wells. A 100-foot diameter area around each well is required to meet Idaho standards for well-head protection. Thus the District must either own the land or obtain easements. Included in this alternative is construction of a pump building to house the well pumps.

#### **Alternative 4 - Dual Distribution System with Two New Ground Water Wells**

This alternative is similar to Alternative 3 in that it requires the construction of at least two new ground water wells and converting from a surface water source to strictly a ground water source. In this alternative, a dual distribution system for domestic use only would be constructed. The existing distribution mains would be used for irrigation and the new small-diameter, “pulled” pipe used for domestic. As discussed in a previous alternative, a separate service would be installed for each home or business for their domestic use. These small diameter pipes can be pulled or bored in some locations, eliminating the need to excavate for installation, keeping surface disturbance and restoration to a minimum. The existing plant would be abandoned in this alternative. Operation and maintenance costs will be reduced once the plant is no longer operational. In this alternative, as in Alternative 2, a new storage reservoir will be needed to provide peak instantaneous demands for domestic use.

#### **Alternative 5 – Combination Surface Water & Ground Water with Dual Distribution System**

This alternative is a combination of surface water and ground water. The alternative would utilize the existing distribution system with the current surface water source for non-domestic uses and a new ground water source (two wells) with a new distribution system for domestic demands. The treatment plant would no longer be needed since the irrigation water (from the surface water supply) would not require treatment. An advantage to this alternative is that the ground water wells would not have to have as high a production rate as alternative 3 or 4. The ground water source would only be used for domestic thus reducing the demands. This may be a feasible option if wells are drilled which do not produce adequate water to meet the demands of providing for both irrigation and domestic use. A storage reservoir and pump package are required in this alternative.

### **Alternative 6 – No Action Alternative**

A no-action alternative was also considered. This alternative would result in the District continuing to use their current surface water source, treatment plant and distribution system without making any improvements or modifications. There would be no up-front cost to the District. Because the District is currently under a court order to bring their system into compliance, this action is unacceptable and would result in the District losing their water system.

### **ENVIRONMENTAL IMPACTS AND MITIGATION COMPARISON**

In evaluating the conceptual level alternatives, consideration was given to the potential environmental impacts that could be encountered from each alternative and the resulting environmental mitigation measures.

It was assumed that the potential for environmental impacts would be greater with the alternatives that provided a new distribution system since these alternatives would affect a larger area than those without. However, the Clearwater Water District already has an existing distribution system and there were no known cultural resources encountered during the placement of this system. With the possible exception of a few new users, a new distribution system would primarily serve the existing water system users and is anticipated to run in the near proximity, if not paralleling, the existing distribution system. Also, if environmental concerns were encountered during construction of the distribution system, the mitigation measures would be relatively straight forward by re-routing or boring the water mains as necessary to avoid sensitive areas. As such, the environmental impacts resulting from a new distribution system was not heavily weighed against an alternative.

In general, it did not appear that any of the alternatives could be ruled out due to significant environmental impacts or mitigation measures. Refer to the following Table 1, Initial Environmental Screening Table.

TABLE1: INITIAL ENVIRONMENTAL SCREENING TABLE

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
CLIMATE/ TOPOGRAPHY, GEOLOGY, SOILS	Direct short term impacts will be minimal earthwork for construction of new treatment facility building. No long term or indirect impacts are anticipated.	Direct, short term impacts are expected for excavation and/or directional boring for new distribution system and minimal earthwork for construction of new treatment facility building. No long term or indirect impacts are anticipated.	Direct, short term impacts are expected for the minimal earthwork for well site location and pump house. No long term or indirect impacts are anticipated.	Direct, short term impacts are expected for the excavation and/or directional boring for new distribution system. Minimal earthwork for well site location and pump house. No long term or indirect impacts are anticipated.	Requires excavation and/or directional boring for new distribution system. Minimal earthwork for well site location and pump house. No long term or indirect impacts are anticipated.	No impact
POPULATION ECONOMIC & SOCIAL PROFILE	Direct, short term and long term impacts are limited future connections due to limited surface water rights, continued increase in maintenance costs due to aging	Direct, short term and long term impacts are limited future connections due to limited surface water rights and increased user rates. New distribution system provides	Direct, short term and long term impacts are new groundwater wells will alleviate reliance on surface water and allow for system growth. Adverse direct short term and long	Direct, short term and long term impacts are new groundwater wells will alleviate reliance on surface water and allow for system growth, new distribution system provides	Direct, short term and long term impacts are new groundwater wells will alleviate reliance on surface water and allow for system growth, new distribution system provides	Direct, short term and long term impacts are the health risk to system users and continued increase in maintenance costs due to aging distribution system. Indirect impacts

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
	distribution system and increased user rates. Indirect impacts are not anticipated. Highest cost alternative.	opportunity for new system users and the new distribution system will reduce maintenance costs. No indirect impacts are anticipated.	term are a continued increase in maintenance costs due to aging distribution system and increased user rates. No indirect impacts are anticipated. Lowest cost alternative.	opportunity for new system users. New distribution system will reduce maintenance costs but increase user rates. No indirect impacts are anticipated.	opportunity for new system users. New distribution system will reduce maintenance costs but increase user rates. No indirect impacts are anticipated.	may be reduced property values. Failure to improve system will result in fines and/or loss of water system.
LAND USE	No impact.	No impact.	Must purchase land or easements for well site.	Must purchase land or easements for well site.	Must purchase land or easements for well site.	No impact.
FLOODPLAIN	There will be no distribution system changes so there will be no long term, direct or indirect impacts to the floodplain.	The National Flood Insurance Program (NFIP) considers “any encroachment resulting in an increase in flood levels” an adverse impact. All work near floodplains will occur within the existing roadway prism of	There will be no distribution system changes so there will be no long term, direct or indirect impacts to the floodplain.	The National Flood Insurance Program (NFIP) considers “any encroachment resulting in an increase in flood levels” an adverse impact. All work near floodplains will occur within the existing roadway prism of	The National Flood Insurance Program (NFIP) considers “any encroachment resulting in an increase in flood levels” an adverse impact. All work near floodplains will occur within the existing roadway prism of	No impact.

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
		county roads, and will NOT generate any fill or improvements within the floodplain that might raise the floodplain elevation. No impact.		county roads, and will NOT generate any fill or improvements within the floodplain that might raise the floodplain elevation. No impact.	county roads, and will NOT generate any fill or improvements within the floodplain that might raise the floodplain elevation. No impact.	
WETLANDS/ WATER QUALITY	One existing wetland has been identified based on the National Wetlands Inventory. This wetland will be avoided (all work in this area will be constructed within existing county road corridors). Appropriate Best Management Practices will be incorporated throughout	One existing wetland has been identified based on the National Wetlands Inventory. This wetland will be avoided (all work in this area will be constructed within existing county road corridors). Appropriate Best Management Practices will be incorporated throughout	One existing wetland has been identified based on the National Wetlands Inventory. This wetland will be avoided (all work in this area will be constructed within existing county road corridors). Appropriate Best Management Practices will be incorporated throughout	One existing wetland has been identified based on the National Wetlands Inventory. This wetland will be avoided (all work in this area will be constructed within existing county road corridors). Appropriate Best Management Practices will be incorporated throughout	One existing wetland has been identified based on the National Wetlands Inventory. This wetland will be avoided (all work in this area will be constructed within existing county road corridors). Appropriate Best Management Practices will be incorporated throughout	No impact.

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
	construction to avoid water quality impacts. No impact.	construction to avoid water quality impacts. No impact.	construction to avoid water quality impacts. No impact.	construction to avoid water quality impacts. No impact.	construction to avoid water quality impacts. No impact.	
WILD & SCENIC RIVERS	No impact.	No impact.	No impact.	No impact.	No impact.	No impact.
CULTURAL RESOURCES	Short term direct impacts are that the footprint for new treatment facility building will need notification to THPO and a cultural resource evaluation or groundbreaking monitoring. No long term or indirect impacts are anticipated.	Short term direct impacts are that the additional distribution system will have some potential for cultural disturbance. Footprint for new treatment facility building and storage tank will need notification to THPO and a cultural resource evaluation or groundbreaking monitoring. No long term or indirect impacts to cultural resources are anticipated.	Short term and direct impacts are that the well site location and footprint for new pump house will need notification to THPO and a cultural resource evaluation or groundbreaking monitoring. No long term or indirect impacts to cultural resources are anticipated.	Short term and direct impacts: the new distribution system will have potential for cultural disturbance in areas not within existing pipeline alignment. The well site location and footprint for pump house storage tank will require a cultural resource evaluation or groundbreaking monitoring. No long term or indirect impacts to cultural resources are anticipated.	Short term direct impacts are that the distribution system installation, well site location, footprint for new pump house and storage tank will require notification to THPO for either a cultural resource evaluation or groundbreaking monitoring. No long term or indirect impacts to cultural resources are anticipated.	No impact.

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
FLORA & FAUNA	No impact.	No impact.	No impact.	No impact.	No impact.	No impact.
RECREATION/ OPEN SPACE	No impact.	No impact.	No impact.	No impact.	No impact.	No impact.
AGRICULTURAL LANDS	No impact.	Additional distribution system will not remove agricultural land from its current use, therefore no direct, indirect or long term impacts are anticipated. Only short term impacts during construction may impact agricultural lands.	The final well location has not been determined yet and may impact less than ½ acre of agricultural land. This would be a short and long term, direct impact and will require Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office. No indirect impacts have been identified.	The final well location has not been determined yet and may impact less than ½ acre of agricultural land. This would be a short and long term, direct impact and will require Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office. No indirect impacts have been identified. The distribution system may also impact prime agricultural land. This would be a short term, direct	The final well location has not been determined yet and may impact less than ½ acre of agricultural land. This would be a short and long term, direct impact and will require Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office. No indirect impacts have been identified. The distribution system may also impact agricultural land. This would be a short term, direct	No impact

ENVIRONMENTAL CRITERIA	ALTERNATIVE 1, EXISTING DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 2, DUAL DISTRIBUTION SYSTEM WITH SURFACE WATER SOURCE AND NEW SMALLER MEMBRANE FILTRATION SYSTEM	ALTERNATIVE 3, EXISTING DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 4, DUAL DISTRIBUTION SYSTEM WITH NEW GROUNDWATER SOURCE	ALTERNATIVE 5, DUAL DISTRIBUTION SYSTEM WITH COMBINED SURFACE AND GROUNDWATER SOURCES	ALTERNATIVE 6, NO ACTION
				impact and will require Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office if the farmland will be permanently converted.	impact and will require Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office if the farmland will be permanently converted.	
AIR QUALITY	No impact.	No impact.	No impact.	No impact.	No impact.	No impact.
ENERGY	Short term, long term and direct impacts are increased energy requirements for new filtration system. No indirect impacts are anticipated.	Short term, long term and direct impacts are increased energy requirements for new filtration system. No indirect impacts are anticipated	Reduced energy requirements with treatment plant no longer in operation. Short term, long term and direct impacts are the minimal energy required for well pumps. No indirect impacts are anticipated	Reduced energy requirements with treatment plant no longer in operation. Short term, long term and direct impacts are the minimal energy required for well pumps. No indirect impacts are anticipated	Reduced energy requirements if treatment plant is not used. Short term, long term and direct impacts are the minimal energy required for well pumps. No indirect impacts are anticipated	No impact.
PUBLIC HEALTH	Would improve water quality for system users.	Would improve water quality for system users.	Would improve water quality for system users.	Would improve water quality for system users.	Would improve water quality for system users.	Poses health risk to citizens.

## ALTERNATIVES RECOMMENDED FOR FURTHER CONSIDERATION

Of the alternatives discussed in the previous section, three were brought forward for further analysis and consideration. The alternatives that were eliminated were not considered the top alternatives for the following reasons:

Alternative 1 – Existing distribution system with new membrane filter	<ul style="list-style-type: none"><li>• Large scale membrane filter results in higher operation and maintenance costs and certifications than other alternatives.</li><li>• Does not provide benefit of new distribution system and will therefore not solve sanitary survey deficiencies or long-term maintenance issues.</li></ul>
Alternative 4 – Dual distribution system with new groundwater wells	<ul style="list-style-type: none"><li>• There is greater risk involved with switching to a system that relies solely on groundwater and abandoning the surface water source.</li></ul>
Alternative 6 – No action alternative	<ul style="list-style-type: none"><li>• Is not protective of public health and does not resolve the court order for the District to bring their system into compliance.</li></ul>

The following alternatives were considered feasible options for the Clearwater Water District and were further analyzed:

### Alternative 2 - Dual Distribution System with Smaller Membrane Filtration System

This alternative consists of construction of a small-diameter pipe system for domestic demands only plus membrane filtration at the plant that will be used only for potable water, as well as a new 20,000 water storage reservoir. All irrigation water will be provided through the existing system but will not receive membrane filtration. The estimated capital cost for Alternative 2 is \$1,083,000.

### Alternative 3 - Utilize Existing Distribution System with Two New Ground Water Wells

This alternative consists of utilizing the existing distribution system and drilling two new ground water wells. The estimated cost for this alternative is \$207,000.

### Alternative 5 – Combination Surface Water & Ground Water w/ Dual Distribution System

This alternative utilizes a combination of surface water and ground water. The alternative would utilize the existing distribution system with the current surface water source for non-domestic uses and a new ground water source (two wells) with a new distribution system for domestic demands. A new 20,000 gallon water storage reservoir would be constructed. The estimated cost for this alternative is \$937,000.

## LOW COST ALTERNATIVE

Although Alternative 3 was the low cost alternative, it was not selected as the recommended alternative. This alternative consists of drilling two new groundwater wells and continuing to use the existing distribution system for domestic and irrigation

water supply. Because this alternative does not include a new distribution system, it shouldn't be compared head to head with the cost of Alternative 2 or 5. Without a new distribution system or significant improvements to the existing system, the District will not resolve their deficiencies from the sanitary survey. They will also continue to experience high maintenance costs and excessive leaking from the aging distribution system. Alternative 3 also eliminates the use of surface water source for irrigation purposes and relies solely on groundwater. This increases the required well water quantity which in turn increases the risk involved with drilling wells. For these reasons, Alternative 3 was not chosen even though it was the low cost alternative.

### **SELECTED ALTERNATIVE**

Alternative 5 was the recommended alternative selected by the engineering consultants, presented to the community, and officially selected by the District for the water improvement project. This alternative will include drilling two new groundwater wells for domestic only water supply. Potential well sites have been located and negotiations have begun with property owners. Groundwater is typically of much higher quality than surface water and so it is very likely that the well water will not have to be treated. A 20,000 gallon storage reservoir will need to be constructed for the domestic water supply. The reservoir location will be determined during preliminary design, but could possibly be situated on existing District property near the treatment plant backwash tank. A new distribution system will also be constructed for supply of the domestic water. Initial planning proposes to have the new distribution system parallel the existing system, but this is still under consideration. Some of the existing system lies within easements on private property, and ideally the new system should be constructed within the existing road right-of-way. During preliminary design, consideration will also be given to expanding the distribution system in order to provide service to new users. The actual location of the distribution system will depend on funding and will be determined during the preliminary design stage. The existing surface water source and distribution system will continue to be used for non-potable water purposes such as irrigation and livestock watering. The existing treatment plant may be abandoned, but could also be utilized for primary filtering of the non-domestic water if the District so desires. Appendix A provides a map of the planning area with proposed improvements.

The advantages and disadvantages of Alternative 5 are listed below.

#### Advantages

- A complete new distribution system for domestic supply is included.
- Leakage concerns would be addressed and compliance with the DEQ 15% unaccounted water could be met.
- Utilizing a high quality groundwater supply would likely eliminate the need for treatment.
- Operational complexity would be minimized.
- Regulatory complexity and compliance issues would be minimized.
- The quantity of groundwater supply would be minimized thus increasing the odds that the available supply would be sufficient to meet the District's needs.

- The District should be able to maintain their surface water right.
- Leakage and breaks on the existing piping network would be less critical since it would serve only non-domestic demands.

#### Disadvantages

- The capital cost is significantly higher than alternative 3.
- There is always risk with groundwater wells in that quantity or quality may not be as expected. Some costs will need to be incurred in order to verify both quantity and quality.
- Water rights would need to be secured for the new groundwater system.
- With dual distribution system, the District would have more piping infrastructure to maintain (domestic and non-domestic)

## Section D: Affected Environment

### D.1 Proposed Project Planning Area

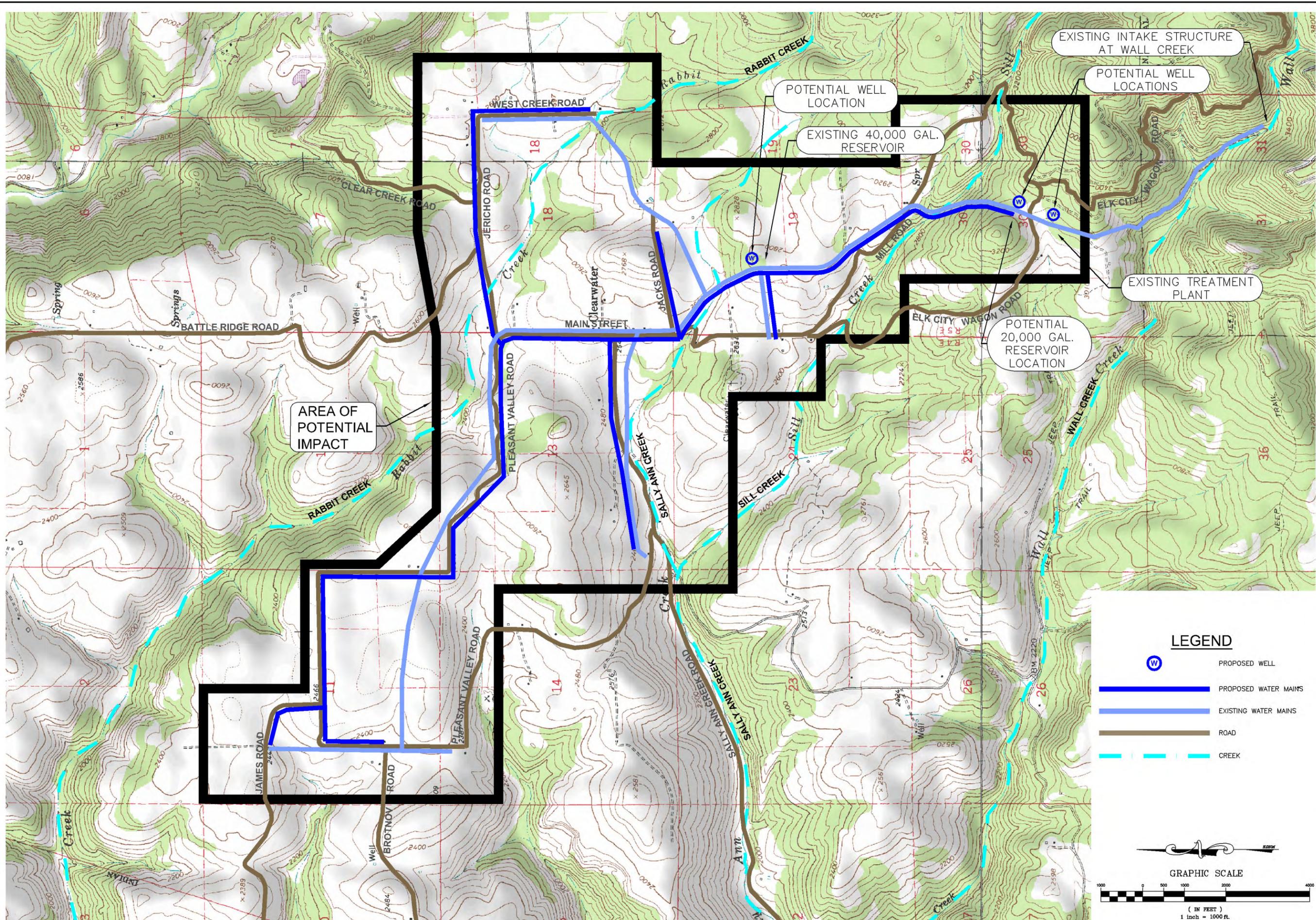
The proposed improvements to the Clearwater Water District system will include drilling two new groundwater wells and constructing a new small diameter distribution system for potable water. The new distribution system is expected to parallel the existing distribution system, but the specific routing will not be determined until the preliminary engineering design occurs. The existing surface water source and distribution system will continue to be utilized for non-potable water purposes including irrigation and livestock watering. Because the routing of the new distribution system has not been fully designed, a generous boundary encompassing the entire district was provided for the planning area and investigation of potential environmental impacts. Appendix A provides a map of the proposed improvements and the area of impact.

The planning area surrounds Clearwater, ID, an unincorporated town in Idaho County that lies approximately 10 miles to the southeast of Stites, ID. Approximately 4 miles to the west of Clearwater lies Highway 13 and the South Fork of the Clearwater River. There are several small streams to the south, including Sally Ann Creek and Wall Creek, which is the current surface water source for the District's water supply.

The project map indicates the population distribution of the District. Parcels with water service are shown in red. The District lies within a rural area and there are no industrial or commercial features within the District or adjacent lands.

### D.2 Planning Area Map

A map of the proposed planning area is provided in Figure 1 and is included in Appendix A.



EXISTING INTAKE STRUCTURE AT WALL CREEK

POTENTIAL WELL LOCATIONS

POTENTIAL WELL LOCATION

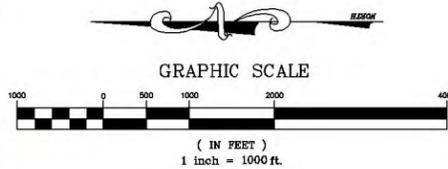
EXISTING 40,000 GAL. RESERVOIR

EXISTING TREATMENT PLANT

POTENTIAL 20,000 GAL. RESERVOIR LOCATION

AREA OF POTENTIAL IMPACT

- LEGEND**
- PROPOSED WELL
  - PROPOSED WATER MAINS
  - EXISTING WATER MAINS
  - ROAD
  - CREEK



PRELIMINARY

REVISIONS	
BY	DATE

**TD&H**  
Engineering

TERRACON CONSULTANTS  
1000 S. 1000 E. SUITE 100  
SPRINGFIELD, WASHINGTON 98981  
LEWISTON, IDAHO

DRAWN BY:	CCK
DESIGNED BY:	TK
QUALITY CHECK:	
DATE:	03-28-13
JOB NO.:	L11-017
FIELDBOOK:	

**CLEARWATER WATER DISTRICT**  
IDAHO COUNTY, IDAHO

**PROPOSED PLANNING AREA**

FIG 1 .dwg

FIGURE 1

### D.3 Area of Potential Effects (APE)

The area of potential effects is the same as the proposed planning area. Because the project has just completed initial planning and preliminary design hasn't yet begun, the actual routing of the distribution system and location of wells have not been finalized and, therefore, the project limits haven't been fully determined. In order to include all potential areas that may be affected, a generous planning area has been provided that essentially encompasses the entire District.

### D.4 Major Features of Proposed Project

The table below provides the planning estimates for the distribution system lines.

<b>Pipe Material &amp; Diameter</b>	<b>Length (LF)</b>
HDPE Water Main, 1-1/2"	8,190
HDPE Water Main, 2"	5,415
HDPE Water Main, 3"	20,120
C 900 PVC Water Main, 4"	4,360
C 900 PVC Water Main, 6"	3,275
HDPE Service Lines, 1-1/2"	2,000

The proposed project will provide for two new groundwater wells. Several locations for the wells have been considered as shown on the project maps. Initial investigations indicate that the wells could be approximately 500 feet in depth and be constructed to provide 55 gpm for domestic only water supply. These requirements will be evaluated and modified, if necessary, during preliminary engineering.

From past project experience and after speaking with DEQ representatives, it is not anticipated that the well water will require treatment. Groundwater sources throughout Idaho have reliably been found to be of good quality.

A new 20,000 gallon storage reservoir will be provided for the new domestic water system. The final location of the storage reservoir has not yet been determined, but tentative planning indicates that it could be placed next to the existing backwash tank which is located on property already owned by the District.

Construction of the proposed improvements will likely occur in the fall of 2013 depending on availability of funding. Test wells could potentially be drilled at an earlier date during preliminary engineering, but no other phasing is planned.

### D.5 Flow Projections

Flow projections were completed during the planning evaluation for existing and future demands as summarized in the table below. The future demands evaluated during the planning study were based on a 20-year projection. 40-year projections are also provided as required for new distribution systems. The future demands were based on population projections that are discussed in Section D.6.c.

Domestic Only						
System Demands with Alternatives 2 & 5						
Alt.	Year	Population	Average Day (gpd)	Average Day w/ 15% Leakage (gpd)	Average Day (gpm)	Maximum Day (gpm)
2	2005	90	13,050	15,000	10.4	31
2	2032	150	21,750	25,000	17.4	52
2	2052	193	28,000	32,200	22.4	67
5	2005	90	9,000	10,350	7.2	22
5	2032	150	15,000	17,250	12.0	36
5	2052	193	19,300	22,200	15.4	46

In Alternative 2, the demands were increased by 45% to account for water needed to backwash the membranes. Maximum Day demands are estimated using a peaking factor of 3.0 times the average day demand. Irrigation and livestock demands are assumed to become non-regulated and would continue to be supplied through the existing surface water source and distribution system.

## D.6 Environmental Features

A previous Environmental Information Document (EID) was prepared for the Clearwater Water District by USKH in 2007 for inclusion with their Addendum to the 2005 Water System Study. Because this EID is also an addendum to the original study, many of the environmental features of the project are the same. The environmental features that are found to be unchanged since the 2007 EID are so noted and referenced. Appendix C includes excerpts of the 2007 EID and both the 2005 Water System Study and the 2007 Addendum are referenced in Section I of this EID.

### *D.6.a Physical Aspects*

*Topography.* The Clearwater area is situated on rolling terrain with low hills and relatively flat valleys. Some minimal leveling will occur for well sites and leveling / compaction will occur at the proposed 20,000 gallon reservoir site. No steep cuts or deep fill are expected for any of the proposed project improvements. Most of the new distribution piping is expected to be installed parallel to the existing distribution system piping. The actual location of the distribution system will depend on funding and will be determined during the preliminary design stage.

*Geology.* The Clearwater Water District is located within the suture zone between the North American Continent and accreted terrain, consisting of metamorphosed rocks of the Proterozoic Belt Supergroup, intruded by Cretaceous and Eocene plutons, and overlain in places by Miocene Basalt. Surface rock in this area could be metamorphic schists, granite, granodiorite or basalt.

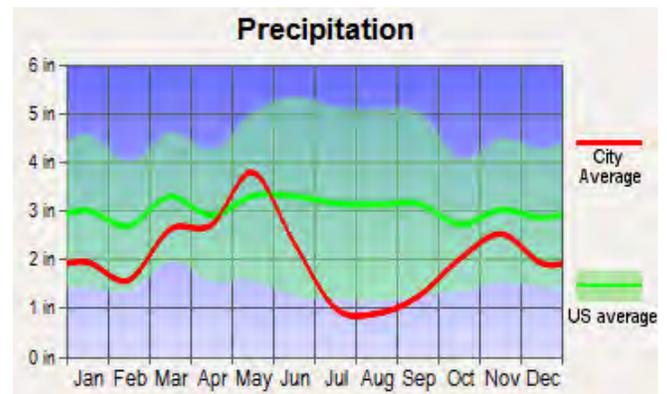
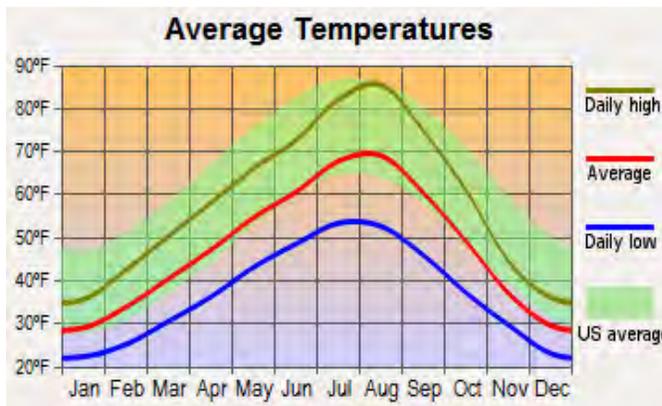
*Soil.* Site soils consist of silt loam, with variable quantities of sand, gravel, cobble and stones. Seven of the soil types present in the area are prime farmland or farmland of statewide importance. The prime or listed farmland soils are as follows:

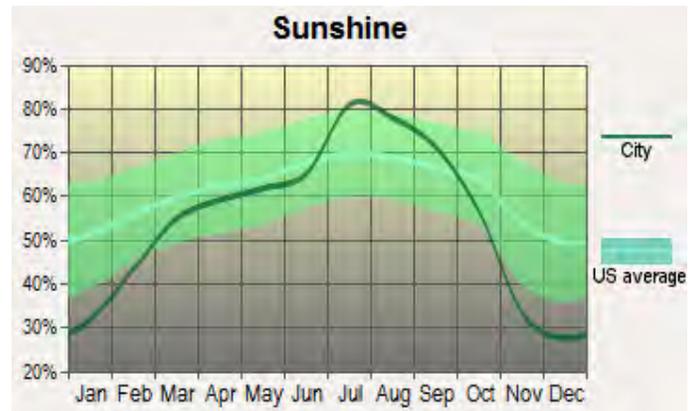
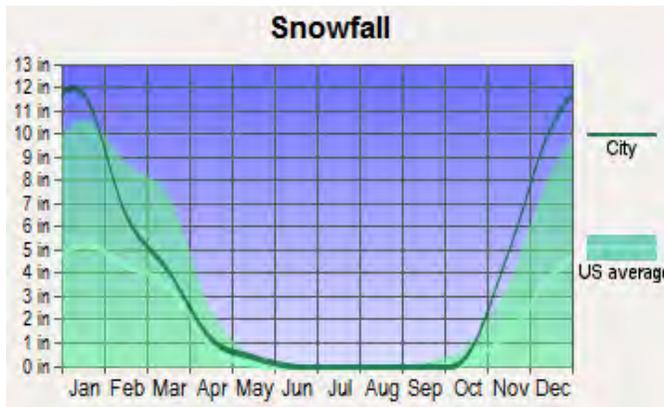
- Kooskia silt loam, 0 to 7 percent slopes, All areas are prime farmland.
- Kooskia silt loam, 7 to 12 percent slopes, Farmland of statewide importance.
- Kooskia silt loam, 7 to 12 percent slopes, eroded, Farmland of statewide importance.
- Kooskia silt loam, 12 to 25 percent slopes, Farmland of statewide importance.
- Kooskia silt loam, 12 to 25, percent slopes, eroded, Farmland of statewide importance.
- Nicodemus loam, 0 to 7 percent slopes, All areas are prime farmland.
- Potlatch silt loam, 0 to 7 percent slopes, Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season.

The proposed project is not expected to negatively affect the topography, soil or geology within the planning area, nor is the physical aspects of the planning area anticipated to affect the project.

#### *D.6.b Climate*

The climate is described as temperate, as shown on the following graphs from the nearby City of Stites, Idaho. Due to their close proximity the weather is expected to be similar. The proposed project is not anticipated to have any adverse impacts on the climate and there are no meteorological constraints anticipated to affect the project.





<http://www.city-data.com/city/Stites-Idaho.html#ixzz25Jvrjbe>

### D.6.c Population

The 2005 Water Study reported the District population at 90 people and had a design year population projection of 192 people. Both the District and surrounding communities have experienced a slow to non-existent population growth rate over the last decades and so the design year population was amended. Census data was gathered to evaluate the past and present populations. As an un-incorporated town, census data is not available for Clearwater. However, census data is provided for the nearby town of Stites, which has comparable demographics to Clearwater, and it was assumed that their growth rates would be similar also. The 1990 population of Stites was 204 which increased to 226 by the year 2000 and then dropped to 221 at the time of the 2010 census. This latest population represents a -2.2% change from the 2000 census, which may in part be influenced by current economic factors. Rather than use the negative population trend, which would result in decreasing the capacity of the existing system, it was decided to use the 1990 and 2000 census numbers in order to determine an appropriate positive growth rate that would allow for sufficient extra capacity in the design. Using the 1990 and 2000 populations, a simple linear projection method was used which predicted a growth rate of 2.2 people per year. This rate was then applied to the District's 2005 population of 90 people, which resulted in a 20-year (2032) design population of 150 people. By using the same growth rate for the 40-year projection (2052), this results in a population projection of 193 people.

### D.6.d Economics and Social Profile

The 2010 Census information for nearby Stites, Idaho, shows a total population of 221 (having lost 2.2% population since 2000). Due to Stites proximity to Clearwater Water District, and the surrounding rural nature of the land use, the census information is expected to be similar. Also, no census information for the Clearwater Water District (which is not a town or incorporated city) is readily available. The majority of the population is full-time residents with some part time (summer) residents. The estimated median household income for Stites was \$29,791.00 in 2012 (up from \$22,386.00 in 2,000), and it is expected to be similar for the Clearwater Water District patrons. Nine

percent of the population in Stites is over 65 years of age and it is expected to be similar for the Clearwater Water District patrons.

Idaho County has a low median annual income and is considered a hardship county. Increases in water rates are difficult for the community, but there is currently an offer from DEQ for a guaranteed 0% interest, 30-year loan with the possibility of some principal forgiveness. This is a limited opportunity for the District and will assist in keeping the water rates low enough to manage while still allowing them to construct a new system. The proposed system will provide safe drinking water and remove a public health threat that could also adversely and disproportionately impact low income or minority groups. The proposed system will not adversely affect land values, nor will it have significant adverse impacts on low-income or minority groups.

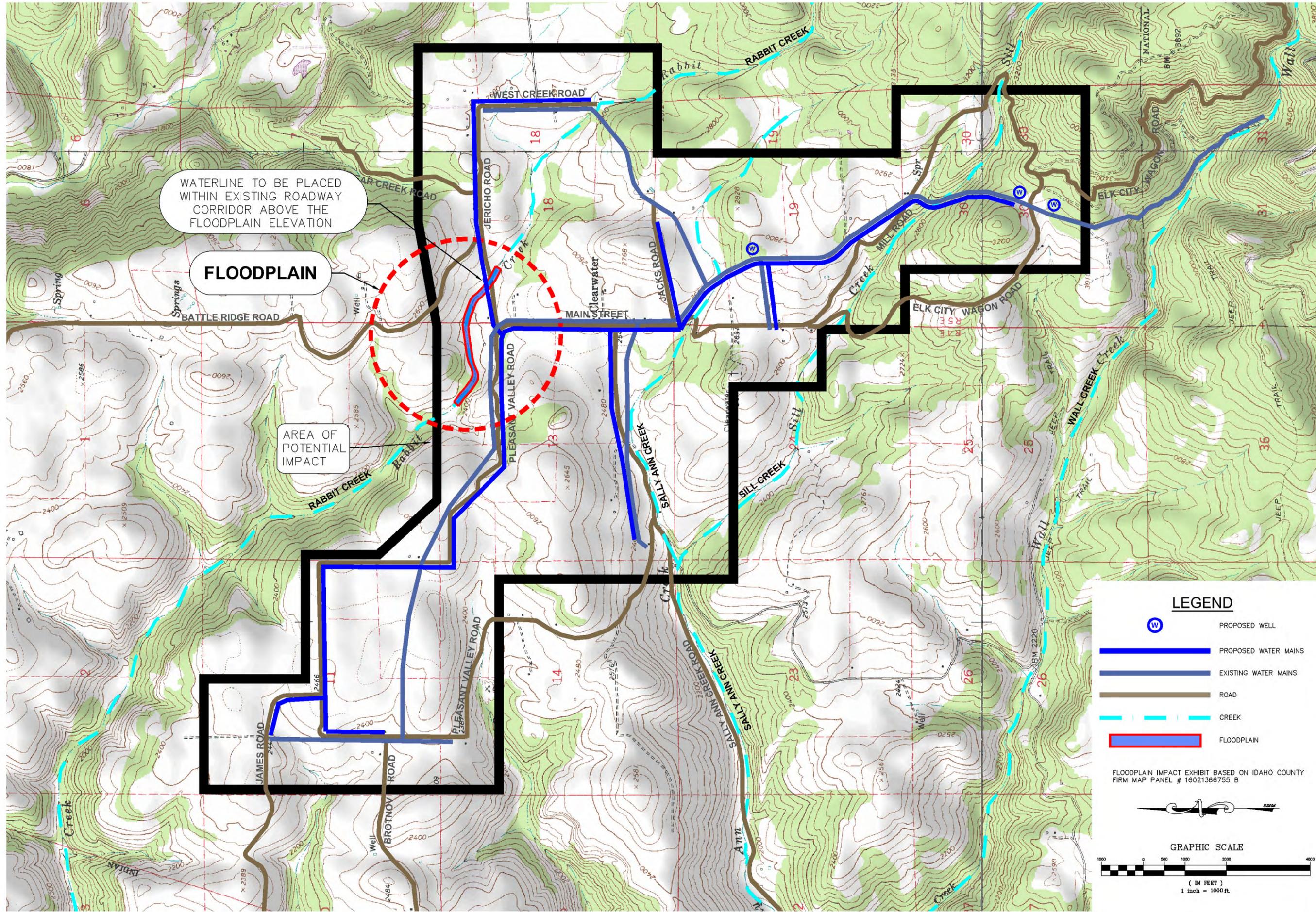
#### *D.6.e Land Use*

Idaho County is not zoned and has no planning and zoning departments or regulations. Land use in the area is primarily agricultural and agricultural residential. Some small portions of property or ROWs may be acquired, but this project will not fundamentally change the land use in any way, with the exception of providing a safer drinking water source for the residents.

#### *D.6.f Flood Plain Development*

Consultation with Dr. Mary McGown, Idaho Water Resources November, 2012 revealed the proposed planning area is not within a known or suspected floodplain, however FEMA Panel Map 675 shows a small possible intersection between the potential pipeline route and the upper reaches of the Rabbit Creek drainage and floodplain. However, placing the potential floodplain on a USGS Map with the pipeline alignment shows there may be no intersection with the Floodplain (refer to the following Figure 2).

Final design is not yet complete; if necessary the pipeline route will be designed to avoid intersecting the Rabbit Creek floodplain. If the floodplain cannot be avoided the pipe specifications will be required to minimize or eliminate infiltration of floodwater into the water system, in accordance with 44 CFR 60.3(a)(5). The installation of underground utilities with the surface restored to the previous elevation will not change a floodplain elevation. Also a floodplain development permit will be required by Idaho County before land disturbing work begins if the floodplain cannot be avoided.



WATERLINE TO BE PLACED WITHIN EXISTING ROADWAY CORRIDOR ABOVE THE FLOODPLAIN ELEVATION

FLOODPLAIN

AREA OF POTENTIAL IMPACT

**LEGEND**

- PROPOSED WELL
- PROPOSED WATER MAINS
- EXISTING WATER MAINS
- ROAD
- CREEK
- FLOODPLAIN

FLOODPLAIN IMPACT EXHIBIT BASED ON IDAHO COUNTY FIRM MAP PANEL # 16021366755 B

**GRAPHIC SCALE**

( IN FEET )  
1 inch = 1000 ft.

REVISIONS

BY	DATE
DESOR	
DESOR	
DESOR	

**TD&H**  
Engineering

idahoengineering.com  
GREAT FALLS BOZEMAN KALISPELL  
MONTANA  
SPOKANE WASHINGTON  
LEWISTON IDAHO

DRAWN BY: CCK  
DESIGNED BY: TK  
QUALITY CHECK:  
DATE: 03-28-13  
JOB NO. L11-017  
FIELDBOOK

**CLEARWATER WATER DISTRICT  
IDAHO COUNTY, IDAHO**

**FLOODPLAIN IMPACT EXHIBIT**

PRELIMINARY

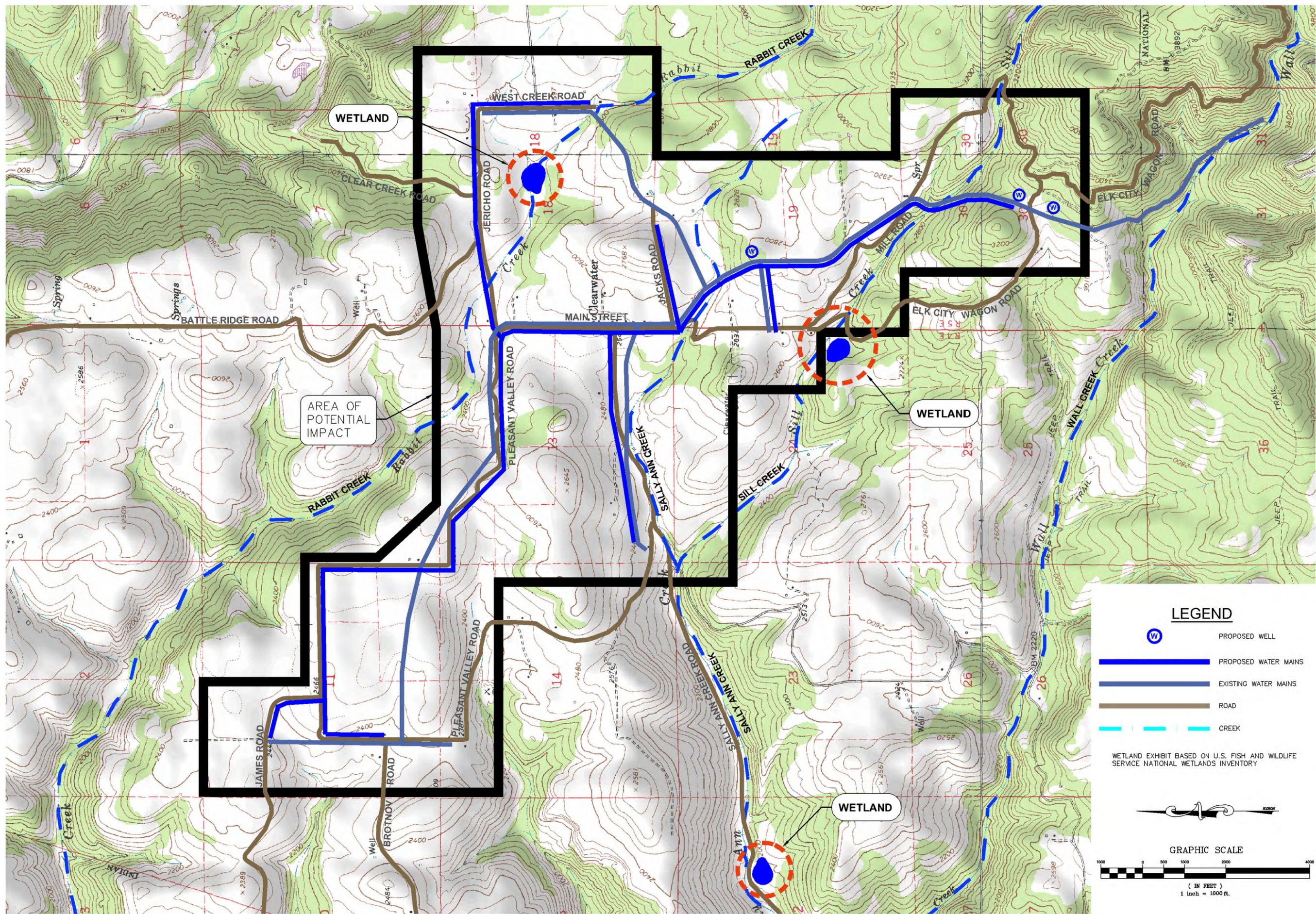
#### *D.6.g Wetlands*

There will be no development in a wetland or wetland buffer area associated with this project. The proposed cross country pipeline improvements will occur on land upgradient of 15 degree slopes and incapable of developing wetlands. The proposed project is not located within a wetland or wetland buffer as shown on the following Figure 3, and confirmed by consultation with the Army Corps of Engineers (ACOE).

Consultation with Greg Martinez of the ACOE in February 2013 revealed that although there will be pipeline crossings in the headwaters of Sally Ann Creek, the project as *planned* will not require a Corps of Engineers permit because we will stay within the existing roadway corridor or, if necessary, bore under the creeks. Boring under streams is the least environmentally intrusive and the preferred method of crossing.

#### *D.6.h Wild and Scenic Rivers*

There is not a designated or proposed wild and scenic river within the planning area. The nearest wild and scenic rivers are the Middle Fork of the Clearwater River (approximately 8 miles north), the Selway River (approximately 15 miles northeast), the Lochsa River (approximately 15 miles northeast), and the Main Salmon River (about 37 miles south). Figure 4 provides a map that shows the project planning area in relation to these four rivers.



**LEGEND**

-  PROPOSED WELL
-  PROPOSED WATER MAINS
-  EXISTING WATER MAINS
-  ROAD
-  CREEK

WETLAND EXHIBIT BASED ON U.S. FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY



**GRAPHIC SCALE**

( IN FEET )  
1 inch = 1000 ft.



PRELIMINARY

REVISIONS	DATE	BY	DESCR

**TD&H**  
Engineering

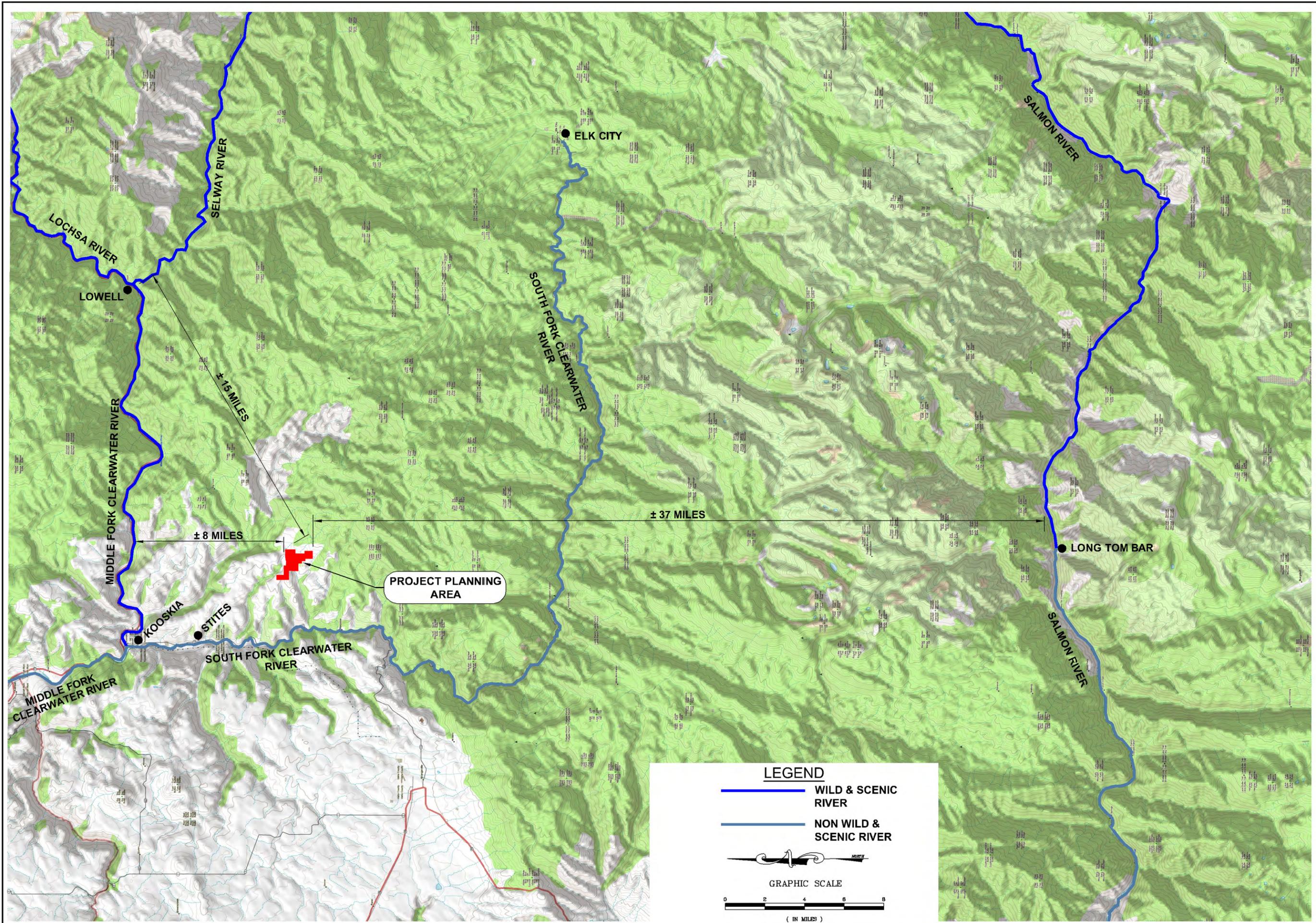
td&hengineering.com  
SHEILA L. BOZEMAN/KALISPELL  
SPokane WASHINGTON  
LEWISTON IDAHO

DRAWN BY: CCK  
DESIGNED BY: TK  
QUALITY CHECK:  
DATE: 03-28-13  
JOB NO. L11-017  
FIELDBOOK

**CLEARWATER WATER DISTRICT**  
IDAHO COUNTY, IDAHO

**WETLAND MAP**

FIG-WETLAND  
**FIGURE 3**

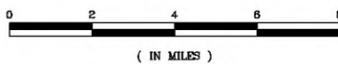


**LEGEND**

-  WILD & SCENIC RIVER
-  NON WILD & SCENIC RIVER



GRAPHIC SCALE



PRELIMINARY

BY	DESCR	DATE



**TD&H**  
Engineering

OSCAR LUIS BOZEMAN/KALISPELL  
SPokane WASHINGTON  
LEWISTON IDAHO

DRAWN BY: JAY  
DESIGNED BY:  
QUALITY CHECK:  
DATE: 03-28-13  
JOB NO. L11-017  
FIELDBOOK

CLEARWATER WATER DISTRICT  
IDAHO COUNTY, IDAHO

WILD AND SCENIC RIVERS MAP

#### *D.6.i Cultural Resources*

Consultation with the Nez Perce Tribe – Tribal Historic Preservation Officer (THPO) was conducted by DEQ. After review of the proposed planning area, the Tribe requested that an archeological survey be completed. An onsite pedestrian survey was conducted on June 22 and 25, 2012 by Patrick Baird, a Tribal Archeologist with the Nez Perce Tribe Cultural Resource Program (CRP). The survey identified the following cultural properties within the planning area:

- Historic Structure – Reservoir (existing water system)
- Historic Structure – Backwash Tank and adjacent concrete pad
- Historic Structure – Well
- Historic Building – Clearwater Odd Fellows Hall
- Town Site – Clearwater
- Historic Road/Trail – Elk City Wagon Road
- Precontact Trail – Southern Nez Perce Trail

The first three properties are structures within the existing Clearwater Water System and are from the original 1948 construction. The study reports that the Water system does not appear to be eligible for listing on the National Register of Historic Places (NRHP). Regardless, the proposed project will not have any adverse effect on these structures since the intent of the project is to have the existing system remain in place for non-domestic water use.

The archeological study also states that the Town Site of Clearwater does not appear to be eligible for the NRHP. Since the proposed project is a waterline project that will have no impact to existing structures, adverse impacts will not be encountered.

The properties that are eligible for listing on the NRHP are the Clearwater Odd Fellows Hall, the Elk City Wagon Road, and the Southern Nez Perce Trail. The study found that the proposed project is unlikely to affect these resources. There is no potential for direct or indirect impact to the Odd Fellows Hall. Precautions to avoid impacting the Elk City Wagon Road and Southern Nez Perce Trail are discussed in Sections F and G.

One limitation of the archeological survey was that portions of the project were not able to be surveyed due to their locations within existing hay fields that were being prepared for harvest. It is the recommendation of the tribal archeologist that additional surveying be completed once final project plans are completed.

The full archeological and historical report prepared by the Nez Perce Tribe CPR is included in Appendix E.

### D.6.j Flora and Fauna

The state fish and wildlife officer was notified of the project during the environmental scoping process. Response was provided which listed all known threatened and endangered species within Idaho County. Listed species for Idaho County are Yellow billed Cuckoo, Canada lynx, North American Wolverine, Bull Trout, MacFarlane's Four O'Clock, Spalding's Catchfly and Whitebark pine. The following table provides a listing of all candidate, proposed, and listed species in Idaho with the specific designation for those found in Idaho County.

U.S. Fish and Wildlife Service • Idaho Fish and Wildlife Office																							
CANDIDATE, PROPOSED AND LISTED SPECIES & PROPOSED AND DESIGNATED CRITICAL HABITAT IN IDAHO																							
Common Name	Herps	Birds		Mammals					Fish		Mollusks		Plants										
		Columbia Spotted Frog (Great Basin Population)	Greater Sage-Grouse	Yellow-Billed Cuckoo	Canada Lynx	Grizzly Bear	Northern Idaho Ground Squirrel	Selkirk Mountains Woodland Caribou	Southern Idaho Ground Squirrel	North American Wolverine	Bull Trout	Kootenai River White Sturgeon	Banbury Springs Lanx	Bliss Rapids Snail	Bruneau Hot Springsnail	Snake River Physa	Christ's Paintbrush	Goose Creek Milkvetch	MacFarlane's Four-O'Clock	Packard's Milkvetch	Spalding's Catchfly	Ute Ladies'-Tresses	Water Howellia
Scientific Name	<i>Rana luteiventris</i>	<i>Centrocercus urophasianus</i>	<i>Coccyzus americanus</i>	<i>Lynx canadensis</i>	<i>Ursus arctos horribilis</i>	<i>Spermophilus brunneus brunneus</i>	<i>Rangifer tarandus caribou</i>	<i>Spermophilus brunneus enemicus</i>	<i>Gulo gulo</i>	<i>Salvelinus confluentus</i>	<i>Acipenser transmontanus</i>	<i>Lanx sp.</i>	<i>Talorchoncha serpenticola</i>	<i>Pyrgolopsis bruneauensis</i>	<i>Haitia (Physa) natricina</i>	<i>Castilleja christii</i>	<i>Astragalus anserinus</i>	<i>Mirabilis macfarlanei</i>	<i>Astragalus cusickii</i> var. <i>parkardiae</i>	<i>Silene spaldingii</i>	<i>Spiranthes diluvialis</i>	<i>Howellia aquatilis</i>	<i>Pinus albicaulis</i>
Idaho County			C	T					C	T-DCH							T		T			C	

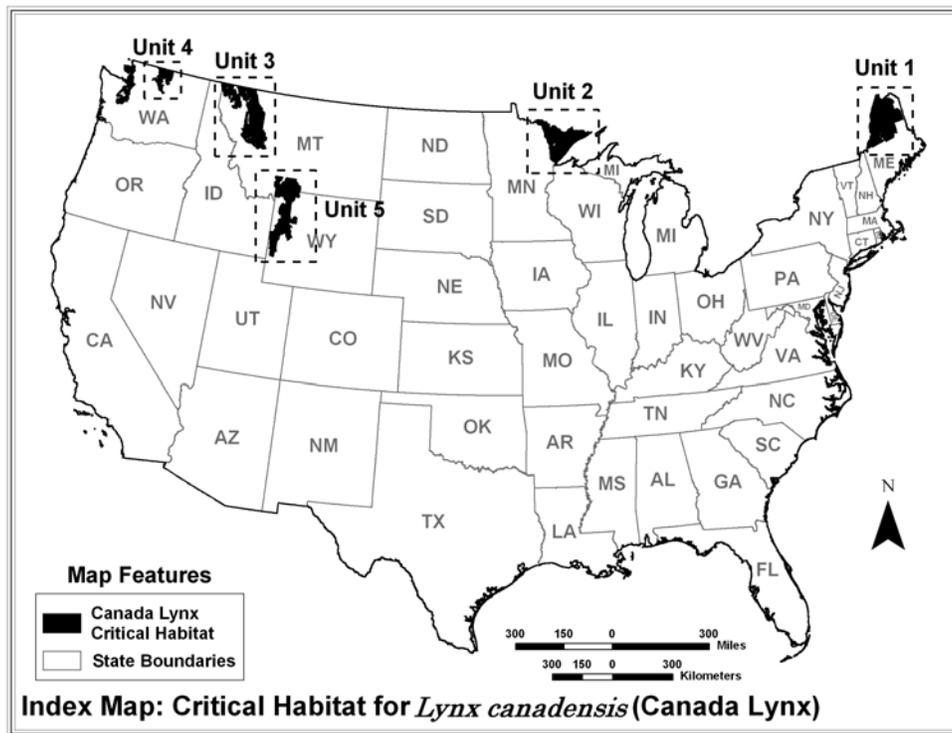
- C Candidate
- P Proposed
- T Threatened
- E Endangered
- CH Designated Critical Habitat
- PCH Proposed Critical Habitat

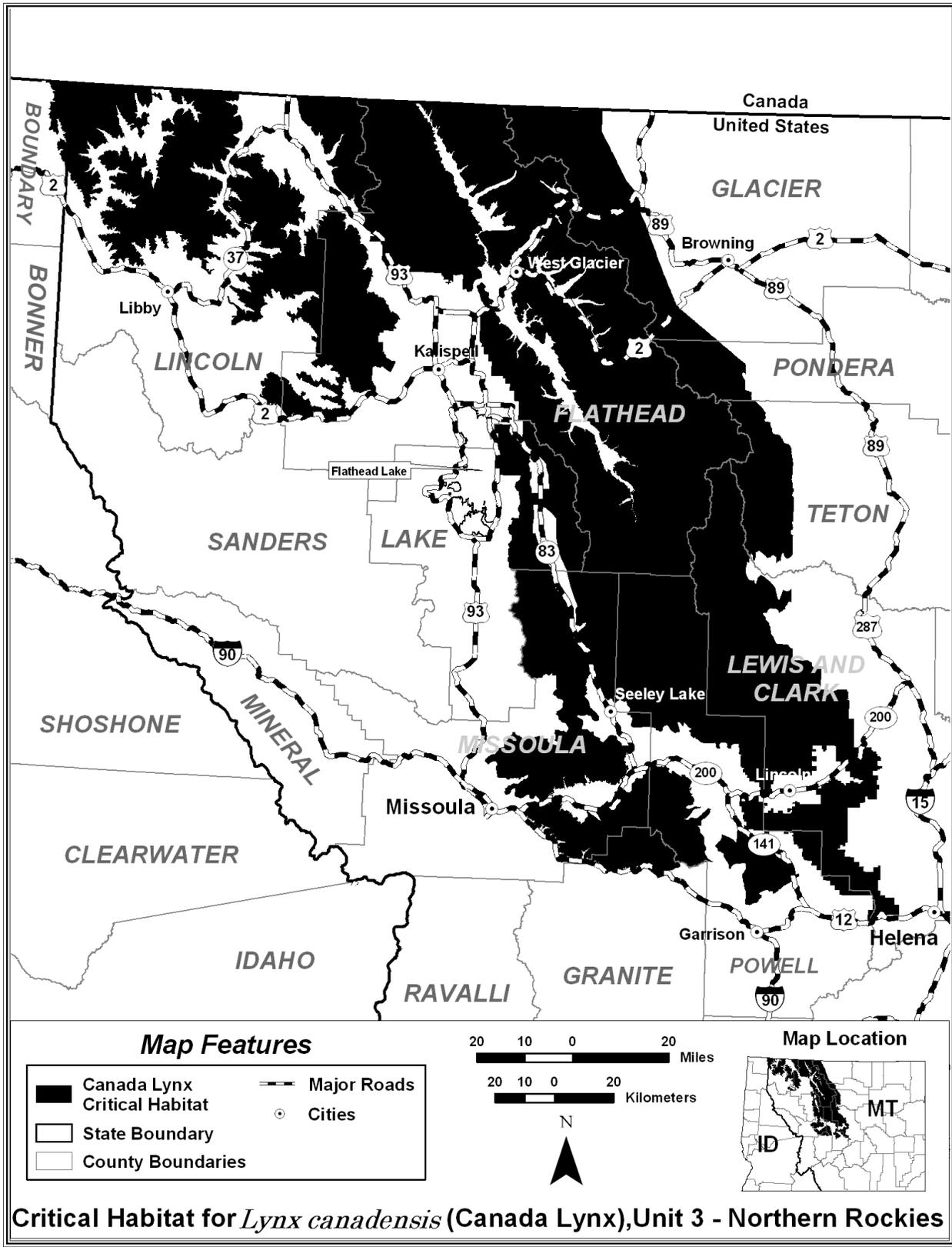
**Yellowbilled Cuckoo.** Throughout its range, yellowbilled cuckoos are usually found in large tracts of cottonwood and willow habitats with dense sub-canopies (USFWS 2001). In Idaho, they are reported to occur most frequently and consistently in cottonwood forests with thick understory. Dense understory foliage appears to be an important factor in nest site selection, while cottonwood trees are an important foraging habitat. This area does not support dense cottonwood trees except immediately adjacent to streams. No work is planned in areas near streams or near stands of cottonwood.

**Canada lynx / North American wolverine.** Canada lynx and / or Wolverines avoid human contact and are unlikely to have established a habitat so near a heavily used road. The USFWS lists the Canada lynx as threatened in Idaho County. Lynx are

medium sized cats, generally measuring 30-35 inches long and weighing 18- 23 pounds. They have tufts on their ears, short black tipped tails and large, well furred feet and long legs for traversing snow. Lynx are highly specialized predators of snowshoe hare and are strongly associated with boreal forest habitat which individual lynx require large portions of to support their home ranges. As a protected species, Canada lynx are protected from take which includes harming, shooting, killing, trapping, collecting or harassing individual animals.

Critical habitat for the Canada lynx is shown in the following figures, none which occur in Idaho County.





*Bull trout.* The Clearwater River is listed as Bull Trout habitat. Appropriate BMPs will be used to prevent sedimentation to any ditches or creeks draining to the Clearwater River from this site.

*MacFarlane's Four O'clock.* MacFarlane's Four O'clock are found on dry steep slopes in sandy talus, primarily on west or southwest facing slopes in the Snake River and Salmon River canyons. There is no suitable habitat in the area of potential affect for MacFarlane's Four O'clock.

*Spalding's Catchfly.* Spalding's Catchfly is endemic to the bunchgrass, sagebrush-steppe and open pine communities of the inland Pacific Northwest. It is unlikely that Spalding's Catchfly occurs at the project site. The only documented occurrences in Idaho are at Craig mountain, which is located about 45 miles to the west of the project site and at an elevation of 1,730 feet, considerably lower than at Clearwater. There is no suitable habitat in the area of potential effect for Spalding's Catchfly.

*Whitebark pine.* Whitebark pine occurs in Idaho between 7,300 - 10,500 foot elevation above mean sea level. Elevation at the proposed project site is approximately 3,100 foot above mean sea level and is not suitable habitat for Whitebark pine.

*Steelhead* Consultation with US ACE revealed that the lower three miles of Sally Ann Creek is listed as critical habitat for steelhead. Open trenching across this (or any) creek would require permitting from US ACE. However, boring under the stream avoids the need for a permit from the Corps, Idaho Department of Water Resources, 401 Water Quality certification and consultation with National Marine Fisheries Service.

The project is unlikely to affect any of the above listed species, and has been planned to avoid effect on any of the listed species.

#### *D.6.k Recreation and Open Space*

Refer to section 1.15 of the 2007 EID for further discussion on Recreation and Open Space. There are no designated open spaces, parks, bicycle paths, or waterway access points that will be affected by the project, nor is it feasible to combine the project with these types of uses.

#### *D.6.l Agricultural Lands*

The proposed project is anticipated to have limited, if any, impact to agricultural land. The distribution system is planned to run parallel to the existing system, along roadways and previously established right of ways and on previously developed properties. The sites for the proposed 20,000 gallon storage tank and wells however, may impact less than two acres of prime or listed farmland. At the time the final sites are determined, soils will be checked and if prime or listed farmland will be impacted, NRCS consultation will begin using Form AD-1006, Farmland Conversion Impact Rating.

#### *D.6.m Air Quality*

The following map, titled *Administrative Boundaries for Areas with Sensitive Air Quality*”, provides areas with Idaho that are classified as air pollutant non-attainment areas, areas of concern and Class I Areas (national parks, wilderness areas, and national memorial parks over a certain acreage). It is clear from the map that there are no non-attainment areas in within the project vicinity. Temporary dust pollution impacts will be controlled as a condition of the construction specifications in accordance with the DEQ rules for control of air pollution in Idaho. Reasonable precautions include using water, dust suppressants, covering stockpiled materials and paving. All construction vehicles will be required to maintain functional muffler systems. There will be no significant emissions of air pollutants as a result of the proposed project. There will be no impact to air quality as a result of this project.

#### *D.6.n. Energy*

Energy conservation measures are estimated at this time due to the conceptual level of the project. It is anticipated that well pumps will be sized appropriately for the desired flow, based on the well production discovered. The most energy efficient pumps that are economically feasible will be selected, again, based on the discovered production rate of the wells. Gravity flow within the distribution system will be used whenever possible. Meters will be installed for the potable water supply. There are no other feasible energy saving methods anticipated for the proposed project.

#### *D.6.o Regionalization*

Refer to section 1.19 of the 2007 EID included in Appendix C for discussion of Regionalization within the Clearwater Water District. There are no feasible opportunities for regionalization as part of this project.

# Administrative Boundaries for Areas with Sensitive Air Quality

Sandpoint  
Non-attainment  
Area for PM<sub>10</sub>

Pinehurst  
Non-attainment  
Area for PM<sub>10</sub>,  
Area of Concern  
for PM<sub>2.5</sub>

	Areas of Concern
	Class I Areas
<b>Non-attainment Areas</b>	
	Non-attainment
	Maintenance
	Tribal non-attainment administered by EPA

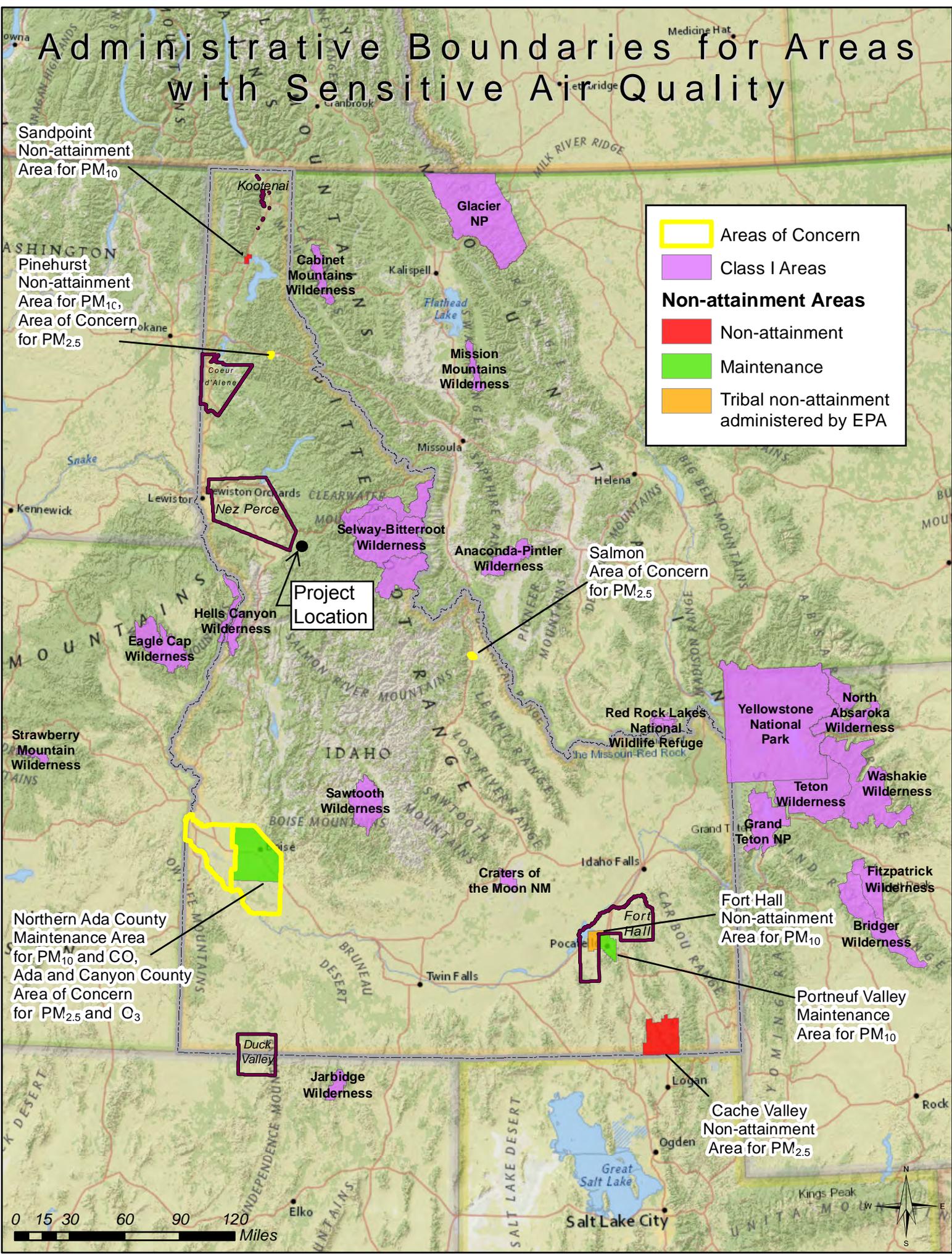
**Project Location**

Northern Ada County  
Maintenance Area  
for PM<sub>10</sub> and CO,  
Ada and Canyon County  
Area of Concern  
for PM<sub>2.5</sub> and O<sub>3</sub>

Fort Hall  
Non-attainment  
Area for PM<sub>10</sub>

Portneuf Valley  
Maintenance  
Area for PM<sub>10</sub>

Cache Valley  
Non-attainment  
Area for PM<sub>2.5</sub>



#### *D.6.p Water Quality*

The project is not anticipated to affect the quality of a ground water source. The proposed project will include construction of wells, but well drilling practices will be in conformance with IDAPA regulations in order to prevent contamination of ground water. Wells will be drilled by an Idaho licensed driller in conformance with IDAPA 37.03.09, "Well Construction Standards Rules," which include specifications for well head protection zones. Once the actual well site is determined, investigations will be conducted to determine the precise location of any septic systems to ensure minimum setback requirements are met, including asking homeowners where their drainfields are located. This project is not anticipated to have a significant effect on the quantity of water with the exception of withdrawing water for domestic water supply. Idaho Water Resources was provided with an initial scoping letter and project description during the planning phase.

Consultation with Andy Helkey of North Central Health District in February, 2013 revealed that some of the septic systems on the east side of Main Street have failed and may drain toward the ditch east of and adjacent to Main Street, where the existing water line is now located. If this is the case, the new distribution system will be routed to avoid these areas during the final design process.

Best Management Practices (BMPs) will be followed during construction to ensure that erosion and sediment control measures are implemented which will eliminate potential nonpoint water quality problems. Additionally, the project plan is to install the pipeline with as little impact as possible, including boring under seasonal creek headwaters. A review of this design plan by US ACE revealed that no Corps permitting is required.

Water right permits will need to be secured through Water Resources. A public comment period will be held prior to construction of the ground water wells which will ensure that the wells should not adversely affect water rights or a source water area in accordance with the following information provided by Idaho Water Resources through their web page, (<http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightsGet.htm>)

#### ***"Instances When You May Need a New Water Right***

*You may need a new water right for an existing use of water if a water right was not properly established for the existing use. (For example, if a use of surface water was initiated after 1971 without applying to IDWR for a permit.) A new water right is also needed for a new use of water. If you wish to establish a new water right, then there are certain procedures you will need to follow.*

#### ***Application Process***

*First, an [Application for a Permit](#) must be filed with IDWR. The information that must be included in the application is described by statute and in rules and regulations of IDWR.*

*IDWR is required to publish notice of the application, and other persons may file protests to the application with IDWR. If protests are filed, then IDWR must hold a hearing if protests cannot be resolved.*

*IDWR must then review the application (including any hearing record), and if the application meets the requirements of the statute and the rules and regulations, a permit is issued. The permit describes the appropriation to be made and the deadline within which the appropriation must be completed.*

*Prior to the end of the period in which the appropriation must be completed, IDWR sends the permit holder a notice that the deadline is approaching and that the permit holder must submit proof of beneficial use. "Proof of beneficial use" is a form sent to the permit holder by IDWR, that the permit holder fills out and returns to IDWR. In the proof form, the permit holder states that he or she has completed the appropriation.*

*After filing the proof form, a field examination must be made. The permit holder may request that the field examination be made by IDWR, in which case an examination fee is required to be paid to IDWR at the time proof is filed. The permit holder may instead have the field examination completed by a certified field examiner not associated with IDWR, in which case the field examiner submits a report to IDWR after the examination is completed and prior to the proof due date. The purpose of the field examination is to ensure that water is in fact being used as described in the permit. If so, IDWR issues a license that describes the appropriation that has been completed."*

## **Section E: Maps, Charts, and Tables**

Refer to Appendix A for project maps.

## Section F: Environmental Impacts of Proposed Project

The list of agencies contacted during the environmental scoping process is provided in a table in Section J. The table provides the date the agencies were notified of the project and the date the agency responded, if at all. All responses received as a result of the environmental scoping process are included in Appendix D.

### Short Term Direct Impacts

The short term impacts that may occur during project construction includes temporary increased noise, increased potential for dust and / or stormwater runoff, and temporary traffic disruptions. Noise will be controlled by limiting work hours and requiring functional muffler systems. Dust will be controlled in accordance with IDAPA 58.01.01.651. A Stormwater Construction General permit will be secured and a Stormwater Pollution Prevention Plan will be prepared. The plans and BMPs will be in place prior to starting construction. The project contractor will be held responsible for managing temporary traffic disruptions, dust and noise control.

The only identified cultural impacts that resulted from the scoping process were potential impacts to the following cultural properties:

- Elk City Wagon Road
- Southern Nez Perce Trail

As discussed in Section D.6.i, these cultural properties were identified as being eligible for listing on the National Register of Historic Places. However, during the archeological and historical survey that was completed by the Nez Perce Tribe Cultural Resource Program, it was determined that the proposed project is unlikely to have an effect on these resources. A full copy of the report is included in Appendix E. Construction activities have the potential to disturb the roadway and trail features, but with the knowledge that they are of cultural significance, measures will be taken during the design and construction phase to avoid adversely impacting them.

### Long Term Direct Impacts

The long term impacts identified include the new use of groundwater as part of the District's supply, and reduced use of surface water. The reduced use of surface water is expected to be a long term benefit to surface water quality. Long term use of the groundwater aquifer is not expected to appreciably affect the quality or supply of groundwater, but cannot be fully evaluated until the wells are drilled.

Overall, the completion of the proposed project will have long term beneficial effects to public health and safety by supplying safer potable water.

### Indirect Impacts

An indirect impact of the proposed project may be that property values hold stable due to a reliable water source. Also, there will be capacity within the system to allow for

future homeowners to connect to the system. Septic systems from new homeowners could impact groundwater. Septic systems attached to those homes could fail and impact groundwater, but the North Central Idaho Health District is well aware of septic problems in this area. Failing septic systems are illegal and it is well outside of the scope of any environmental document to assess possible illegal activities that might occur in the proximity of any given project.

### **Cumulative Impacts**

Cumulative impacts may result when the effects of an action are added to other effects in an area and within a certain timeframe. Cumulative impacts can result in the compounding of the effects of all actions including not only the proposed project but also other projects that might contribute impacts to the environment. A common sense approach considers:

- whether the resource is especially vulnerable to incremental effects;
- whether the proposed action is one of several similar actions in the same geographic area, (past, present or foreseeable future projects)
- whether other activities in the area have similar effects on the resource;
- whether these effects have been significant for this resource;
- whether other analyses in the area have identified a cumulative effects concern.

Resources affected include topography and soils, water quality, air quality, aquatic resources, cultural resources, land use, wetlands, floodplain, public services and community structure.

The remote location and small size of the Clearwater Water District narrowly limits the effect of this project on any of the resources. Impacts encountered during project construction include temporary increased noise, increased potential for dust and / or stormwater runoff, and temporary traffic disruptions. Once construction is complete, these impacts will cease to exist. Cultural resource effects will be controlled during design. The new use of groundwater will reduce the use of surface water while not expected to appreciably affect the quality or supply of groundwater.

Past projects have provided the limited roads and home construction in this region and the existing, faltering water system. No other projects are known to be planned in this region, although a reliable water source could allow for future homeowners to connect to the system. Future homeowner connections would mean the installation of additional septic systems. It is speculative to assume that additional septic systems will degrade groundwater in this area. However, it remains possible that any or all of the septic systems located within the Clearwater Water District could fail resulting in degradation of ground water. But the North Central Idaho Health District is well aware of septic problems in this area. Failing septic systems are illegal and it is well outside of the scope of any environmental document to assess possible illegal activities that might occur in the proximity of any given project.

There are no other similar projects or activities, construction or home construction currently occurring.

There are no future projects, road or home construction known to be planned, and no other environmental analyses have identified cumulative effects.

TABLE 2 CHECKLIST TO IDENTIFY POTENTIAL CUMULATIVE EFFECTS FOR CLEARWATER WATER DISTRICT PROPOSED IMPROVEMENTS							
POTENTIAL IMPACT AREA	PROPOSED ACTION			PAST ACTIONS	OTHER PRESENT ACTIONS	FUTURE ACTIONS (none foreseeable)	CUMULATIVE IMPACT
	Construction	Operation	Mitigation				
Topography and soils	**	0	BMP	0	0	0	0
Water quality	*	0	BMP	***	0	0	+
Air quality	*	0	BMP	0	0	0	0
Aquatic Resources	0	0	BMP	**	0	0	+
Cultural Resources	*	0	BMP	0	0	0	0
Land use	0	0	0	*	0	0	0
Wetland	0	0	0	0	0	0	0
Public Services	*	+	0	**	0	0	+
Community Structure	*	+	0	**	0	0	+
Floodplain	0	0	Avoidance	0	0	0	0
KEY: * low adverse effect + beneficial effect							
** moderate adverse effect 0 no effect							
***high adverse effect BMP, best management practice during construction							

## Section G: Means to Mitigate Adverse Environmental Impacts

The following mitigation means are enforceable by contractual agreements. Clearwater Water District, as the project owner, will have the authority by contract and ability to fulfill the following mitigation commitments. Clearwater Water District will engage an engineering firm to provide construction monitoring.

The archeological and historical survey completed by the Nez Perce Tribe CRP identified two features of historic significance: the Elk City Wagon Trail and the Southern Nez Perce Trail. There is potential to have an impact on the roadway and trail by constructing water mains within and adjacent to these features.

Mitigation measures: avoiding construction within and near these areas whenever possible, boring of pipes under the roadway and trail if necessary, and restoring any disturbed portions of the roadway and trail to original conditions. Impacted areas not surveyed, such as foundation for storage tank or pump house will be surveyed prior to any groundbreaking activities begin.

In addition, all areas that the Nez Perce Tribe was unable to survey during the planning stage will need to be surveyed prior to beginning any and all construction or ground breaking/moving activities. Refer to Appendix E – Archeological and Historical Survey for a map showing which areas were unable to be surveyed during the planning stage.

Idaho County, including the Clearwater Water District, contains areas of prime farmland. The earth disturbing activities involved with the well and distribution system could have a short term impact on farmland, however the presence of an underground pipeline will not convert prime farmland.

Mitigation measures: Identify and avoid prime farmland areas during design or submit a Form AD – 1006, Farmland Conversion Impact Rating to the local NRCS office.

As is typical with most construction projects, there will be some short-term impacts to the community as a result of the construction process and equipment. The project contractor will be held responsible for managing temporary traffic disruptions, dust and noise control.

Mitigation measures: Noise will be controlled by limiting work hours and requiring functional muffler systems. Sedimentation will be controlled by a Stormwater Construction General Permit and a Stormwater Pollution Prevention Plan. The plans and BMPs will be in place prior to starting construction.

Water rights will need to be secured through Water Resources and a public comment period will be held prior to construction of the ground water wells which will ensure that the wells should not adversely affect water rights or a source water area.

Mitigation Measures: Water rights will be secured through Idaho Water Resources with a public comment period.

If failing septic systems are found along the new pipeline route, the route will be revised in final design to avoid any intersection with areas where sewage may drain.

If the Rabbit Creek floodplain cannot be avoided, a floodplain development permit from Idaho County is required.

In the event any undiscovered environmental concern should arise during preliminary or final design of the project, the proper environmental agency will be consulted immediately for determination of proper mitigation measures.

Should previously unknown environmental concerns be discovered during construction, the contractor shall immediately stop work and notify the engineer, at which point the engineer shall contact the appropriate environmental agency for consultation and determination of proper mitigation measures.

List of required permits:

- Stormwater Construction General Permit
- Idaho Water Resources Well Permit

List of potential permits:

- Form AD 106
- Floodplain Development Permit

## **Section H: Public Involvement**

During the planning process the engineering recommendation was selected from the proposed improvement alternatives. The proposed recommendation and improvement project is discussed in section C.

A public meeting was held on January 21, 2012 in order to present all alternatives and the engineer's recommendation to members of the Water District. Questions were verbally answered during the meeting. Survey questionnaires were also provided at the meeting and were collected during the following 14-day comment period in order to gain information on existing and potential users.

At the end of the comment period, the questionnaires were reviewed and discussed by the Water District Board and then a formal decision was made to approve the engineering recommendation.

Appendix F provides the following public involvement documentation:

- Advertisement for public meeting published in the Idaho County Free Press
- Public mailer sent to residents of the Clearwater Water District prior to the public meeting
- Sign in sheet from the public meeting
- Outline of presentation from the public meeting
- Survey questionnaires with comments
- Meeting minutes of District meeting documenting official selection of engineer's recommended alternative

## Section I: References

1. Clearwater Water District Ground Water Assessment Study, May 2010, prepared by Wyatt & Associates.
2. Water System Study for the Clearwater Water District, September 2005, prepared by Progressive Engineering Group, Inc.
3. Engineering Report Addendum for Water System Improvements, Filtration Plant Improvements – Clearwater Water District, August 2007, prepared by USKH.
4. Pilot Test Study Clearwater Water District, Stites, Idaho, December 2009, prepared by USKH.
5. US Environmental Protection Agency, Drinking Water Standards.
6. Idaho Department of Environmental Quality, Drinking Water Regulations
7. Community Water Systems Source Book, 5<sup>th</sup> edition, High Point, North Carolina: Technical Proceedings, 1960, Ameen, Joseph S.
8. USDA NRCS Web Soil Survey
9. Idaho Fish and Game, September 22, 2005, Yellow Billed Cuckoo
10. US Fish and Wildlife Service, 2001, Endangered and Threatened Wildlife and Plants, Spalding's Catchfly, Federal Register 66:51598-51606.
11. Western Regional Climate Center, 2012.
12. U. S. Department of Commerce, United States Census, 2010.  
[quickfacts.census.gov/qfd/.../16000.html](http://quickfacts.census.gov/qfd/.../16000.html)
13. US Fish and Wildlife, National Wetland Inventory Map, 2012.
14. Idaho Department of Environmental Quality Air Quality Planning Areas (Map), 2012
15. Consideration Of Cumulative Impacts In EPA Review of NEPA Documents  
U.S. Environmental Protection Agency, Office of Federal Activities (2252A)  
EPA 315-R-99-002/May 1999
16. Environmental Assessment Designation of Critical Habitat for the  
Contiguous United States Distinct Population Segment of the Canada Lynx  
U.S. Fish and Wildlife Service Region 6 Denver, Colorado February 2009

17. Chapter 16, Clearwater River Recovery Unit, Idaho. 196 p. In: U.S. Fish and Wildlife Service. Bull Trout (*Salvelinus confluentus*) Draft Recovery Plan. Portland, Oregon U.S. Fish and Wildlife Service Portland, Oregon U.S. Fish and Wildlife Service. 2002.

## Section J: Agencies Consulted

The following table provides a list of the environmental agencies that were consulted. A copy of the consultation letter and accompanying maps is also included directly after this table. Appendix D – Environmental Agency Responses provides copies of all agency correspondence.

Name of Contact	Agency Name	Agency Address	City	State	Zip	Notification Date	Response Date
Greg Martinez	Department of the Army, Walla Walla District, Corps of Engineers, Boise Regulatory Office	10095 West Emerald Street	Boise	ID	83704-9754	2/10/2012	2/5/2013
State Supervisor, US Fish and Wildlife	US Fish and Wildlife Service, Snake River Fish & Wildlife Office	1387 South Vinnell Way, Suite 368	Boise	ID	83709-1657	2/10/12	2/24/12
Dale Brege	NOAA - National Marine Fisheries Service	104 Airport Road	Grangeville	ID	83530	2/10/2012	N/A
Tom Moore	Department of Environmental Quality, Lewiston Regional Office	1118 "F" Street	Lewiston	ID	83501	2/10/2012	N/A
James Wertz	U.S. EPA, Idaho Operations Office	1435 North Orchard	Boise	ID	83706	2/10/2012	N/A
Robert Sandlund, Soil Conservationist	USDA-NRCS	102 South Hall Street	Grangeville	ID	83853	2/10/2012	N/A
Mary McGown, State NFIP Coordinator	Idaho Dept. of Water Resources	322 East Front Street PO Box 83720	Boise	ID	83720-0098	2/10/2012	11/16/2012
Allen Beardslee	Idaho Dept. of Water Resources	7600 Mineral Drive, Ste. 100	Coeur d'Alene	ID	83815	2/10/2012	N/A
Regional Nongame Biologist	Idaho Dept. of Fish and Game, Clearwater Region	3316 16th Street	Lewiston	ID	83501	2/10/2012	N/A
Gary Bahr	Idaho Department of Agriculture	P.O. Box 790	Boise	ID	83701	2/10/2012	2/24/12

Ed Marugg, Environmental Health Director	North Central District Health Department	215 10th Street	Lewiston	ID	83501	2/10/2012	11/8/2012, but referred question to another.
Roger Jansson, Operations Chief - North	Department of Lands, Northern Operations	3284 West Industrial Loop	Coeur d'Alene	ID	83815	2/10/2012	N/A
Jeff Beeman, Rural Development Specialist	USDA-RD	7830 Meadowlark Way, Suite C3	Coeur d'Alene	ID	83815	2/10/2012	N/A
Dennis Porter, State Program Manager	Idaho Dept of Commerce	700 West State Street, PO Box 83720	Boise	ID	83720	2/10/2012	N/A
Suzi Pengilly, Deputy SHPO	Idaho State Historical Society	210 Main Street	Boise	ID	83702	2/10/2012	N/A
Patrick Baird, Archaeologist, THPO, Cultural Resource Program	Nez Perce Tribe (DEQ consulted directly with the THPO)	PO Box 365	Lapwai	ID	83540	3/12/2012	4/17/2012



February 10, 2012

Name of Contact  
Agency Name  
Agency Address  
City, State, Zip

RE: Clearwater Water District – Water System Improvement Project  
Request for Comments for Preparation of an Environmental Information Document

Dear Name of Contact:

The Clearwater Water District is preparing a facility planning document to identify and make necessary improvements to their drinking water system that are cost effective and environmentally sound. The facility plan for this project is being funded 50% by a Department of Environmental Quality (DEQ) planning grant which requires compliance with the Rules for Administration of Planning Grants for Drinking Water Facilities, IDAPA 58.01.22. The grant requires compliance with the Idaho DEQ State Environmental Review Process which mirrors that of the National Environmental Policy Act. The purpose of this letter is to request your review and response regarding any environmental impacts that your agency may identify for this proposed project.

The proposed project consists of drilling new ground water wells and constructing a new, small diameter distribution system to supply domestic only water to the Clearwater Water District. The new water distribution system will be constructed alongside the existing distribution system. The District will continue to utilize their current surface water source and existing distribution system, but for non-domestic (irrigation/livestock) purposes only.

In the event that ground water wells are not adequate to supply the District with the required quantity and/or quality of domestic water, the District will make improvements to their existing treatment plant. This alternate project would consist of installing a new membrane filter system at their existing treatment plant for treatment of domestic only water. A new, small diameter distribution system will be constructed alongside their existing pipe network for supply of domestic only water. The existing distribution system will remain in service but will only be utilized for non-domestic purposes. Water supply for both the domestic and non-domestic systems will be from Wall Creek, the District's current surface water source.

The project is being proposed to bring the District into compliance with the water quality standards of the Clean Water Act. Enclosed are maps of the proposed project planning area that depict the proposed project improvements and area of potential effect for all construction activities.

---

*2517 17<sup>th</sup> Street, Suite B • Lewiston, ID 83501 • (208) 746-0938 • FAX (208) 746-3511*

Name  
February 10, 2012  
Page 2 of 2

We request that you advise us of any comments that you may have regarding this project within 30 days, so the Clearwater Water District can proceed with the completion of the Environmental Information Document.

If you have any questions concerning this proposed project or if you need any further information, please feel free to contact Heather Calkins with TD&H Engineering.

Sincerely,

**TD&H Engineering**



Heather R. Calkins, P.E.  
Project Engineer

Cc: Clearwater Water District  
Dick Wyatt, P.E – Wyatt & Associates

Encl: maps



**CLEARWATER WATER DISTRICT - WATER SYSTEM IMPROVEMENT PROJECT**  
**CLEARWATER, IDAHO COUNTY, IDAHO**

**VICINITY MAP**

**TD&H**  
**Engineering**

tdhengineering.com

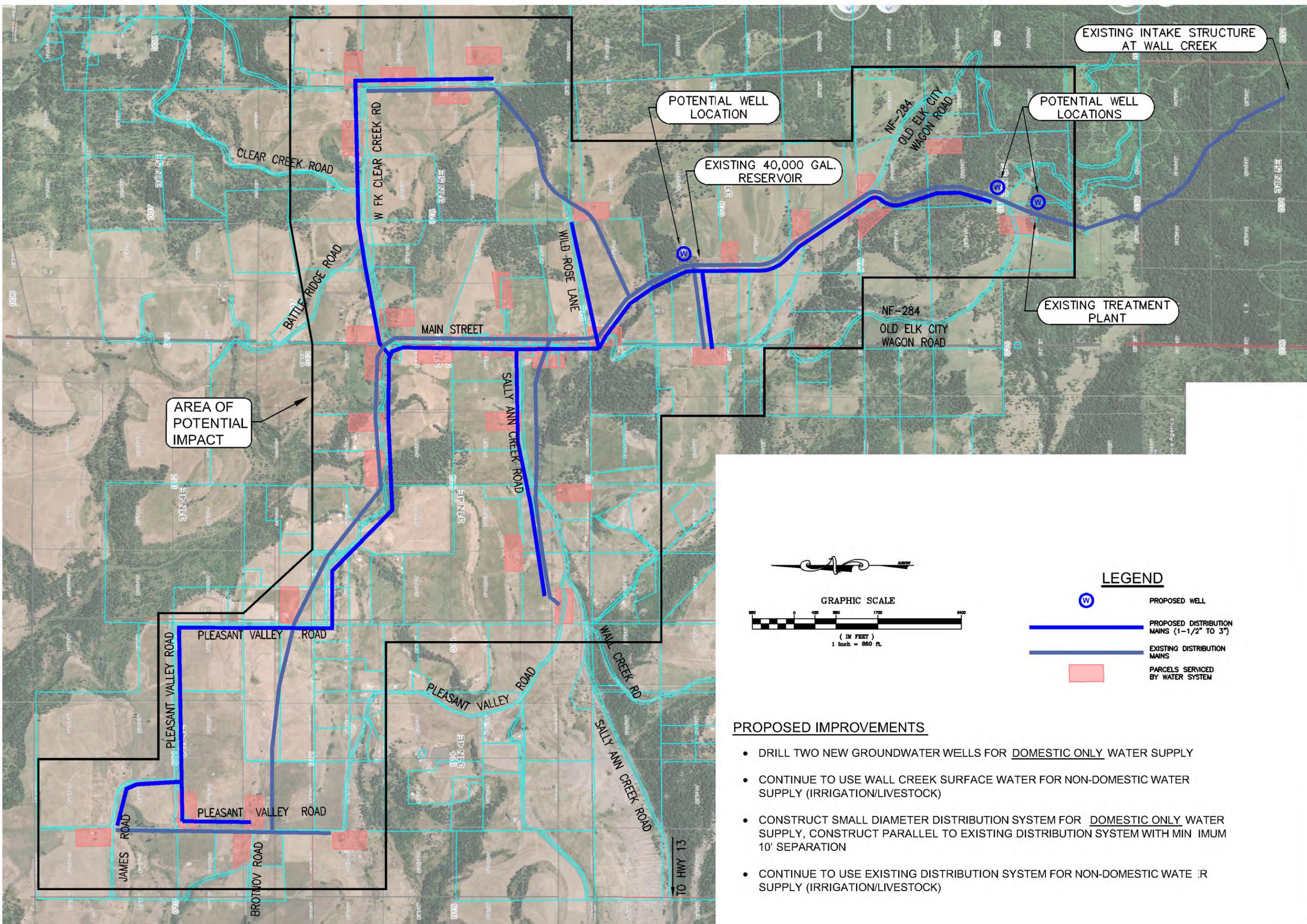
GREAT FALLS-BOZEMAN-KALISPELL  
 SPOKANE  
 LEWISTON

MONTANA  
 WASHINGTON  
 IDAHO

DRAWN BY:	HRC
DESIGNED BY:	HRC
QUALITY CHECK:	
DATE:	02/10/12
JOB NO.	L11-017
CAD NO.	VICINITY MAP

**FIGURE**

**1**



PRELIMINARY

REVISIONS	DATE	BY	DESCR

**T&H Engineering**  
 T & H Engineering, Inc.  
 1000 S. 10th Street  
 Spokane, WA 99201  
 Phone: 509.325.1111  
 Fax: 509.325.1112  
 Website: www.tandh-engineering.com

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DESIGNED BY:	HRC
QUALITY CHECK:	
DATE:	02/10/12
JOB NO.:	L11-017
FIELDBOOK:	

**CLEARWATER WATER DISTRICT**  
 IDAHO COUNTY, IDAHO  
**COMBINATION SURFACE & GROUND WATER**  
 WITH DUAL DISTRIBUTION SYSTEM

## Section K: Mailing List

### Clearwater Water District

Lyle Smith, Chairman  
P.O. Box 314  
Stites, ID 83552

### Water District Members (local & out-of-state)

Rebecca Blake  
357 Pleasant Valley Rd.  
Stites, Idaho 83552

Mr. and Mrs. Lynn Bles  
156 James Rd.  
Stites, Idaho 83552

Mr. and Mrs. Tom Keller  
637 Pleasant Valley Rd.  
Stites, Idaho 83552

Deloris Heimgartner  
c/o Jenny Lyons  
293 Smith Creek Rd.  
Kooskia, Idaho 83539

Clearwater First Baptist  
Church  
158 Clearwater Main St.  
Clearwater, Idaho 83552

Mr. and Mrs. Mark Jones  
155 Clearwater Main St.  
Clearwater, Idaho 83552

Mr. and Mrs. John Gunter  
113 Gunter Rd.  
Clearwater, Idaho 83552

Crystal Lodge #103  
Mary Bishop, Secretary  
332 Clearcreek Rd.  
Kooskia, Idaho 83539

Clearwater Grange #299  
c/o Carol BonAnno  
1443 Battleridge Rd.  
Kooskia, Idaho 83539

Ms. Darcy Hardin  
5808 S. Regal St. Apt. 18  
Spokane, WA 99223-6939

Mr. and Mrs. Johnny Wilson  
215 Elk City Wagon Rd.  
Clearwater, Idaho 83552

James Farris  
12602 Red Pepper Ct.  
Germantown, MD 20874

Mr. and Mrs. Lyle Smith  
194 Clearwater Main St.  
Clearwater, Idaho 83552

Mr. and Mrs. Joel Hardin  
225 Mill Rd.  
Clearwater, Idaho 83552

Margaret Eacret  
215 Mill Rd.  
Clearwater, Idaho 83552

Mr. and Mrs. Lester Gunter  
118 Gunter Rd.  
Clearwater, Idaho 83552

Mr. and Mrs. Vinal  
Hardin  
199 Clearwater Main St.  
Clearwater, Idaho 83552

Leslie Lynn  
642 Sally Ann Rd.  
Stites, Idaho 83552

Marge Konrad  
614 Sally Ann Rd.  
Stites, Idaho 83552

Mr. and Mrs. Orville Martin  
235 Jericko Rd.  
Kooskia, Idaho 838539

Mr. and Mrs. Ron Morrow  
271 Jericko Rd.  
Kooskia, Idaho 83539

Mr. and Mrs. Tim Straw  
296 Jericko Rd.  
Kooskia, Idaho 83539

Randy Spearanza  
100 Brotnov Rd.  
Stites, Idaho 83522

Mr. and Mrs. John Wood  
P.O. Box 283  
Lewiston, Idaho 83501

Jerrie Bishop  
P.O.Box 313  
Kamiah, Idaho 83536

Ian Caldwell  
6798 W. Legacy Dr.  
Rathdrum, Idaho 83858

Mary Barker  
Tholl Estate  
1805 Cherry Street  
Clarkston, WA 99403

Iris B. Talbot Estate  
Myna DeHaas, Prep.  
82 Milner Trail Rd.  
Grangeville, Idaho 83530

Mr. and Mrs. Richard  
Samson  
3714 18<sup>th</sup> Street B  
Lewiston, Idaho 83501

Mr. and Mrs. William Lane  
128 Clearwater Main St.  
Stites, Idaho 83552

Helen McLean  
328 N. 3<sup>rd</sup>  
Grangeville, Idaho 83530

Clark McCulley  
161 Clearwater Main St.  
Clearwater, Idaho 83552

Mr. and Mrs. Paul McPherson  
P.O. Box 43  
Clarkston, Washington 99403

Monte & Debbie Brotnov  
Box 125  
Union Town, WA 99179

McLean Estates  
Bernadette Straw  
296 Jericko Rd.  
Kooskia, Idaho 83539

Mr. and Mrs. Lyle Brotnov  
10976 S.E. 352<sup>nd</sup>  
Boring, Oregon 97009

T. Jessie Miller  
Manes Estate  
590 CR 385  
Valley Veiw, TX 96272

Bill Eacret  
P.O. Box 291  
Stites, Idaho 83552

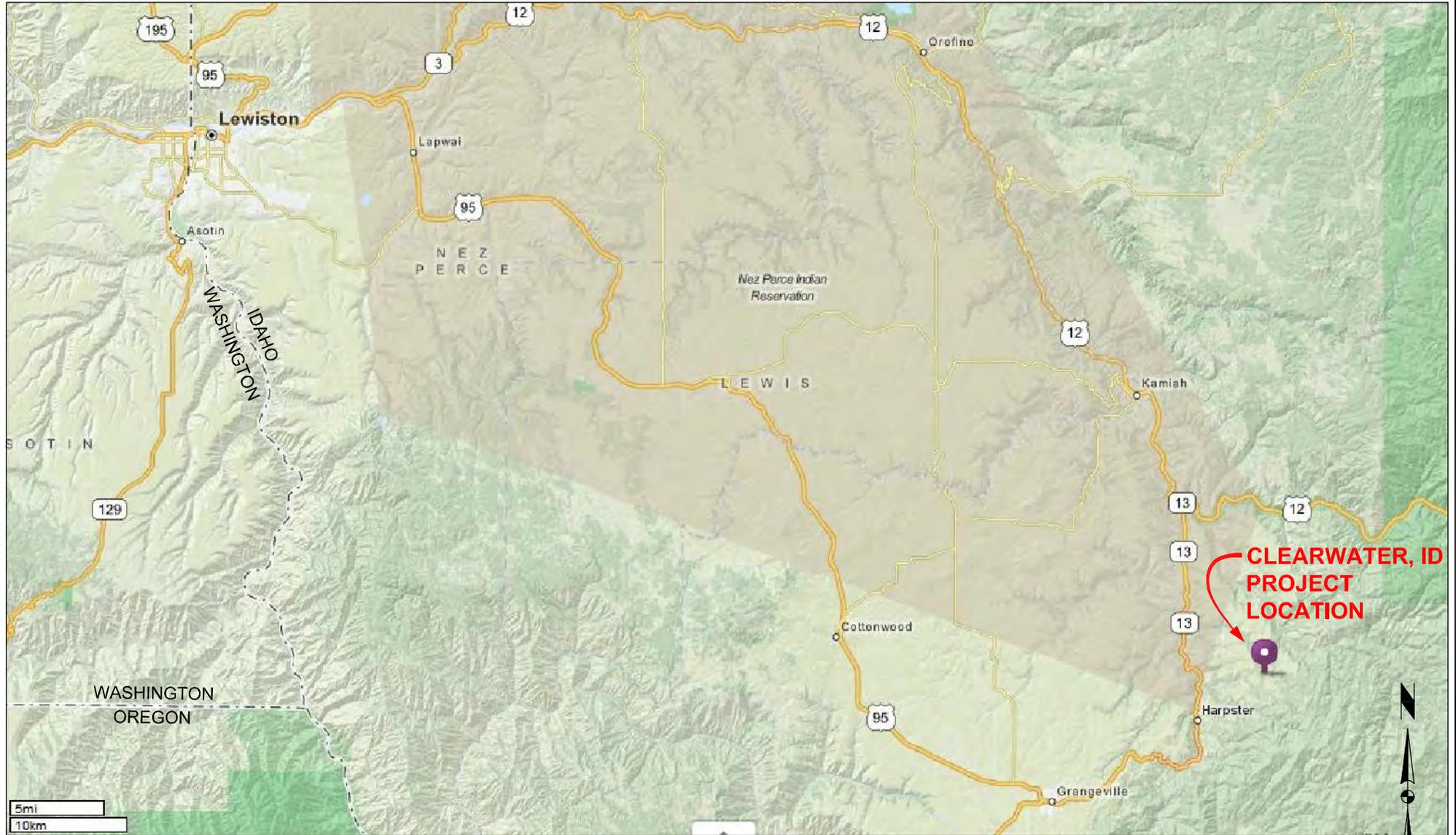
John & Dixie Hardin  
799 Pleasant Valley Rd.  
Clearwater, Idaho 83552

Mr. and Mrs. Richard Schaak  
114 Pleasant Valley Rd.  
Clearwater, Idaho 83552

Mr. & Mrs. Barry Elam  
148 Clearwater Main St.  
Clearwater, Idaho 83552

## Appendix A – Maps

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**CLEARWATER WATER DISTRICT - WATER SYSTEM IMPROVEMENT PROJECT**  
**CLEARWATER, IDAHO COUNTY, IDAHO**

**VICINITY MAP**

**TD&H**  
**Engineering**

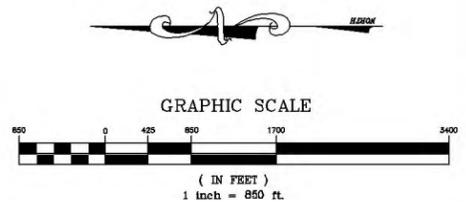
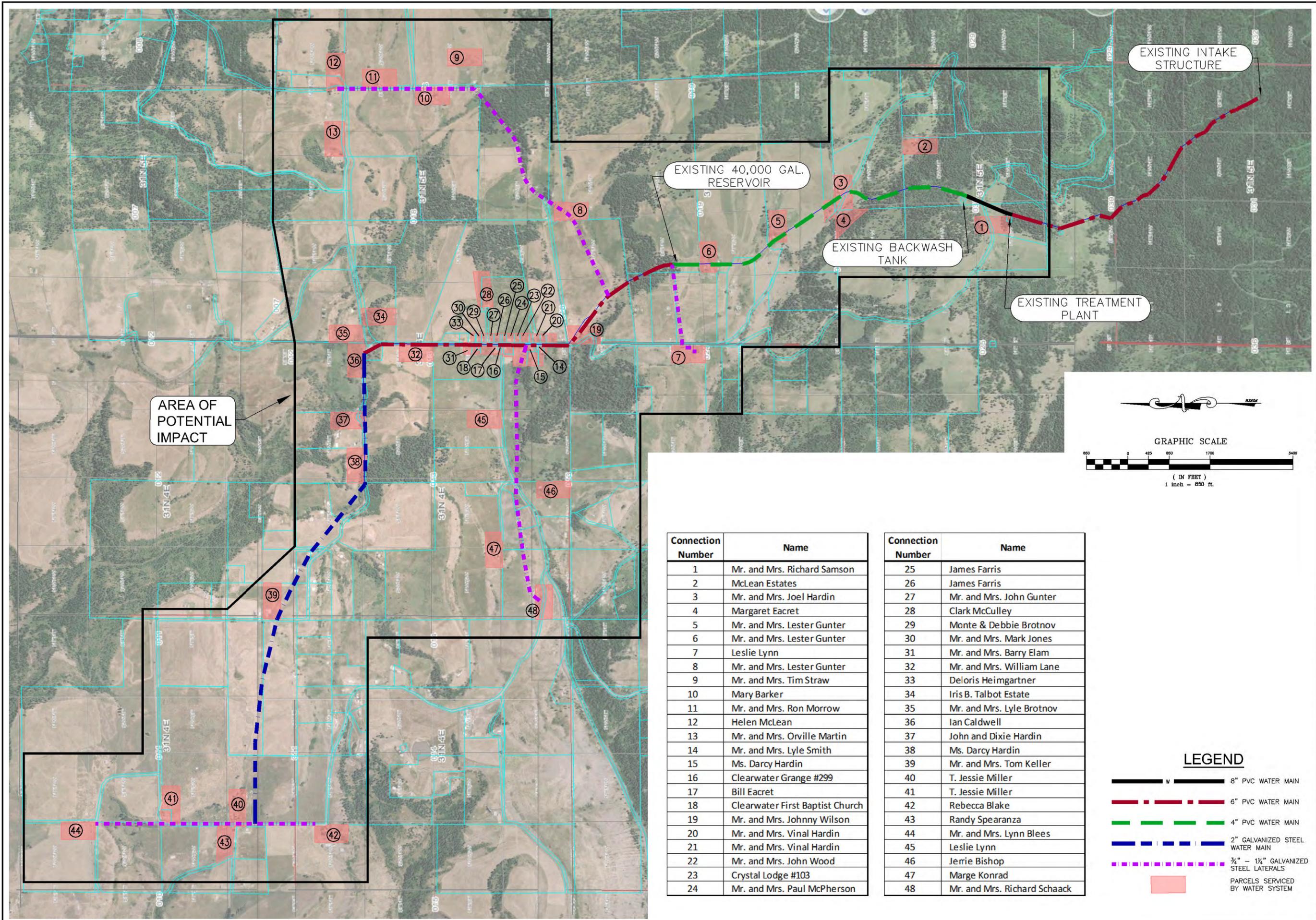
tdhengineering.com

GREAT FALLS-BOZEMAN-KALISPELL  
 SPOKANE  
 LEWISTON

MONTANA  
 WASHINGTON  
 IDAHO

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DATE:	02/10/12
JOB NO.	L11-017
CAD NO.	FIG 1 - VICINITY MAP

**FIGURE**  
  
**A1**



Connection Number	Name
1	Mr. and Mrs. Richard Samson
2	McLean Estates
3	Mr. and Mrs. Joel Hardin
4	Margaret Eacret
5	Mr. and Mrs. Lester Gunter
6	Mr. and Mrs. Lester Gunter
7	Leslie Lynn
8	Mr. and Mrs. Lester Gunter
9	Mr. and Mrs. Tim Straw
10	Mary Barker
11	Mr. and Mrs. Ron Morrow
12	Helen McLean
13	Mr. and Mrs. Orville Martin
14	Mr. and Mrs. Lyle Smith
15	Ms. Darcy Hardin
16	Clearwater Grange #299
17	Bill Eacret
18	Clearwater First Baptist Church
19	Mr. and Mrs. Johnny Wilson
20	Mr. and Mrs. Vinal Hardin
21	Mr. and Mrs. Vinal Hardin
22	Mr. and Mrs. John Wood
23	Crystal Lodge #103
24	Mr. and Mrs. Paul McPherson

Connection Number	Name
25	James Farris
26	James Farris
27	Mr. and Mrs. John Gunter
28	Clark McCulley
29	Monte & Debbie Brotnov
30	Mr. and Mrs. Mark Jones
31	Mr. and Mrs. Barry Elam
32	Mr. and Mrs. William Lane
33	Deloris Heimgartner
34	Iris B. Talbot Estate
35	Mr. and Mrs. Lyle Brotnov
36	Ian Caldwell
37	John and Dixie Hardin
38	Ms. Darcy Hardin
39	Mr. and Mrs. Tom Keller
40	T. Jessie Miller
41	T. Jessie Miller
42	Rebecca Blake
43	Randy Spearanza
44	Mr. and Mrs. Lynn Blee
45	Leslie Lynn
46	Jerrie Bishop
47	Marge Konrad
48	Mr. and Mrs. Richard Schaack

**LEGEND**

- 8" PVC WATER MAIN
- 6" PVC WATER MAIN
- 4" PVC WATER MAIN
- 2" GALVANIZED STEEL WATER MAIN
- 3/4" - 1 1/2" GALVANIZED STEEL LATERALS
- PARCELS SERVICED BY WATER SYSTEM

REVISIONS	
BY	DATE

**TD&H**  
Engineering

1000 N. 10TH ST.  
SPokane, WA 99207  
PH: 509.325.1111  
WWW.TDANDH.COM

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DESIGNED BY:  
QUALITY CHECK:  
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CLEARWATER WATER DISTRICT  
IDAHO COUNTY, IDAHO

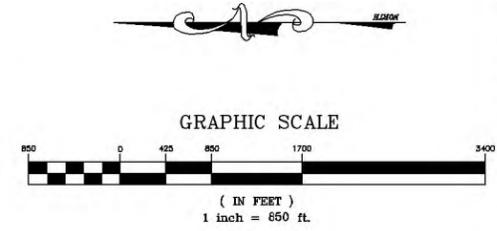
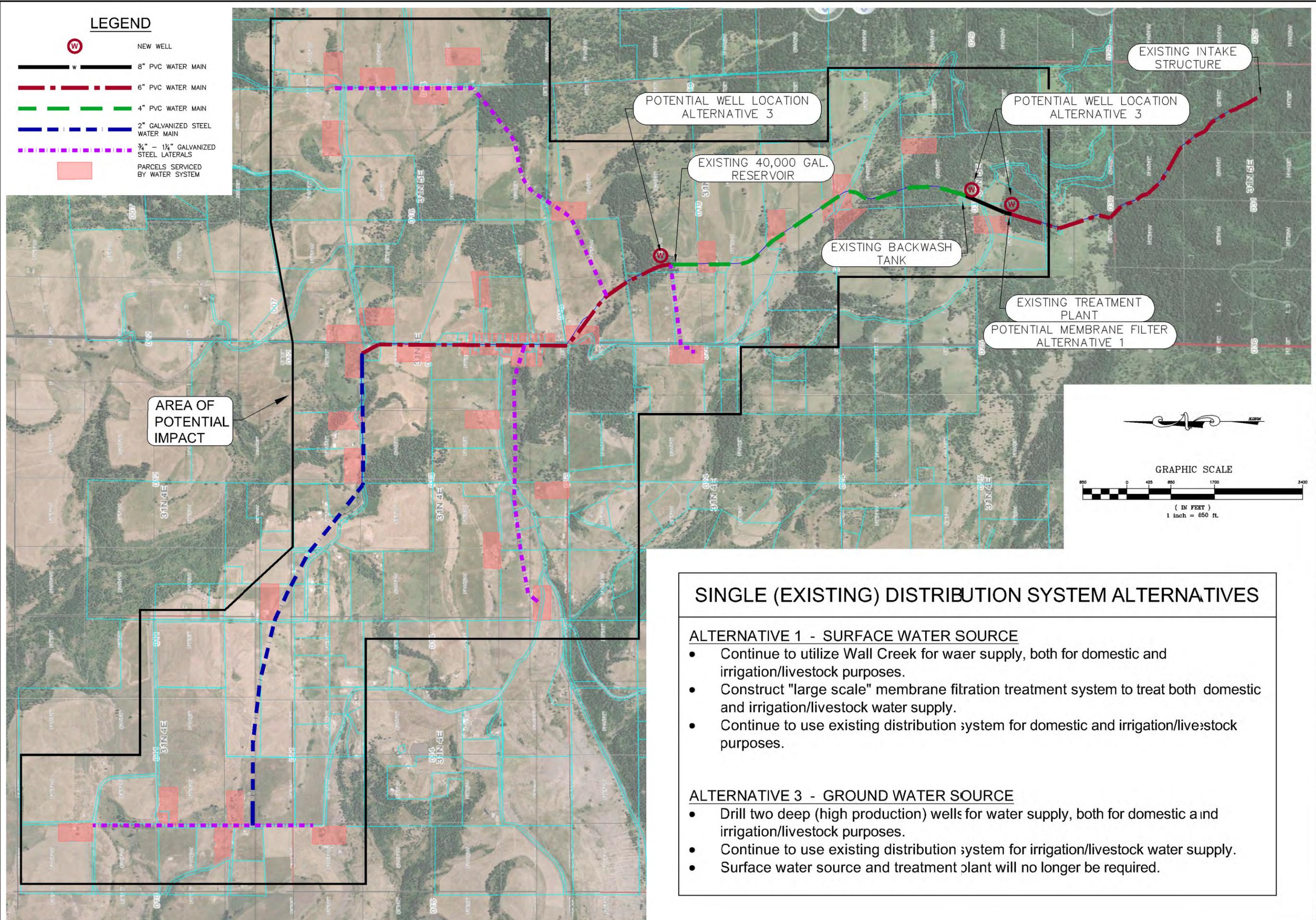
EXISTING WATER SYSTEM & USERS

existing system.dwg

**FIGURE A2**

**LEGEND**

-  NEW WELL
-  8" PVC WATER MAIN
-  6" PVC WATER MAIN
-  4" PVC WATER MAIN
-  2" GALVANIZED STEEL WATER MAIN
-  ¾" - 1¼" GALVANIZED STEEL LATERALS
-  PARCELS SERVICED BY WATER SYSTEM



**SINGLE (EXISTING) DISTRIBUTION SYSTEM ALTERNATIVES**

**ALTERNATIVE 1 - SURFACE WATER SOURCE**

- Continue to utilize Wall Creek for waer supply, both for domestic and irrigation/livestock purposes.
- Construct "large scale" membrane filtration treatment system to treat both domestic and irrigation/livestock water supply.
- Continue to use existing distribution system for domestic and irrigation/live)stock purposes.

**ALTERNATIVE 3 - GROUND WATER SOURCE**

- Drill two deep (high production) wells for water supply, both for domestic and irrigation/livestock purposes.
- Continue to use existing distribution system for irrigation/livestock water supply.
- Surface water source and treatment plant will no longer be required.

REVISIONS	
BY	DATE

  
**TD&H**  
 Engineering  
1000 N. 10th St. Suite 100  
 Spokane, WA 99207  
 (509) 325-1111  
 www.tdandh.com

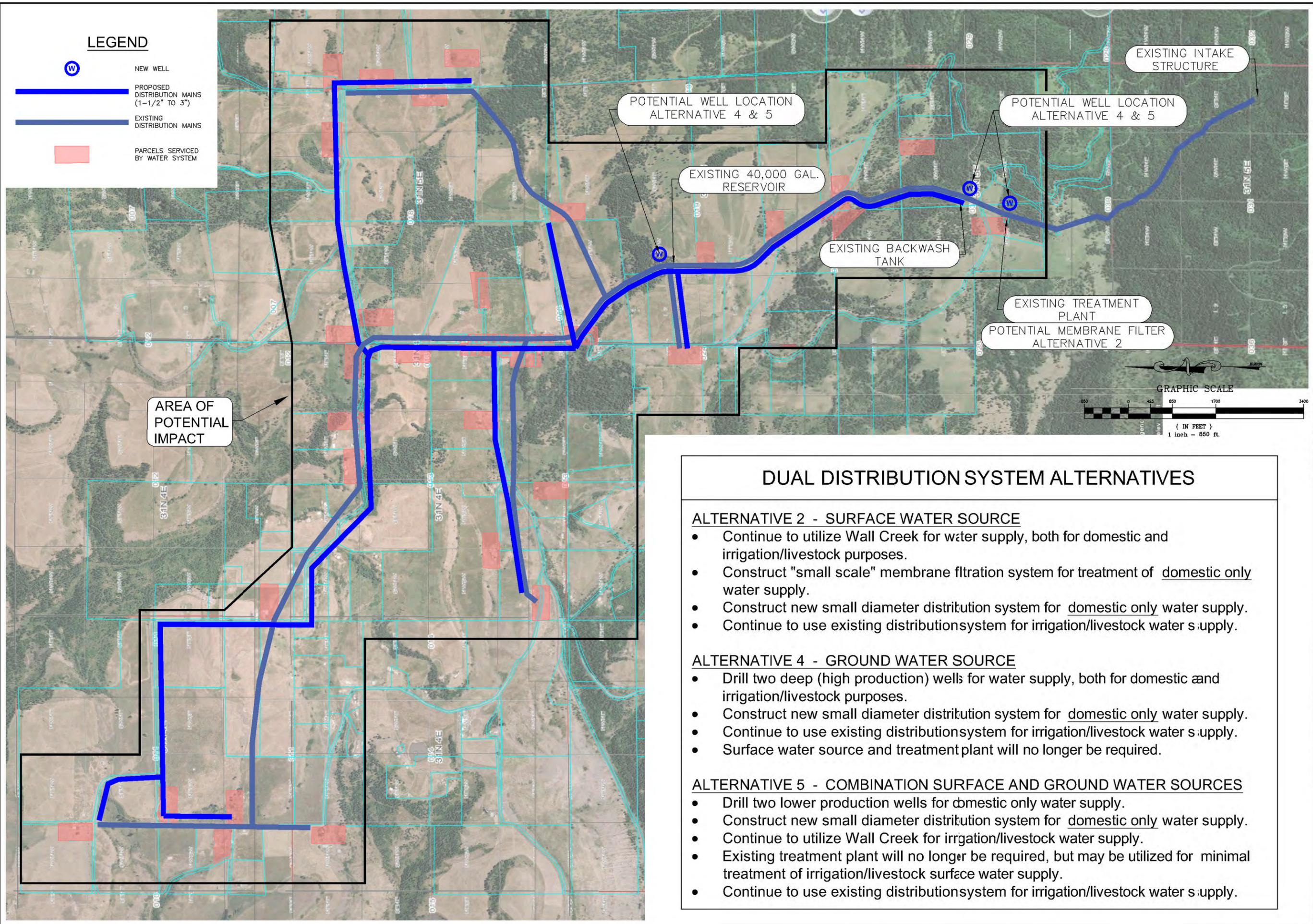
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 QUALITY CHECK:  
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 JOB NO. L11-017  
 FIELDBOOK

**CLEARWATER WATER DISTRICT**  
 IDAHO COUNTY, IDAHO  
**SINGLE (EXISTING) DISTRIBUTION SYSTEM ALTERNATIVES**

single distribution.dwg  
**FIGURE A3**

**LEGEND**

-  NEW WELL
-  PROPOSED DISTRIBUTION MAINS (1-1/2" TO 3")
-  EXISTING DISTRIBUTION MAINS
-  PARCELS SERVICED BY WATER SYSTEM



**DUAL DISTRIBUTION SYSTEM ALTERNATIVES**

- ALTERNATIVE 2 - SURFACE WATER SOURCE**
- Continue to utilize Wall Creek for water supply, both for domestic and irrigation/livestock purposes.
  - Construct "small scale" membrane filtration system for treatment of domestic only water supply.
  - Construct new small diameter distribution system for domestic only water supply.
  - Continue to use existing distributionsystem for irrigation/livestock water supply.
- ALTERNATIVE 4 - GROUND WATER SOURCE**
- Drill two deep (high production) wells for water supply, both for domestic and irrigation/livestock purposes.
  - Construct new small diameter distribution system for domestic only water supply.
  - Continue to use existing distributionsystem for irrigation/livestock water supply.
  - Surface water source and treatment plant will no longer be required.
- ALTERNATIVE 5 - COMBINATION SURFACE AND GROUND WATER SOURCES**
- Drill two lower production wells for domestic only water supply.
  - Construct new small diameter distribution system for domestic only water supply.
  - Continue to utilize Wall Creek for irrigation/livestock water supply.
  - Existing treatment plant will no longer be required, but may be utilized for minimal treatment of irrigation/livestock surface water supply.
  - Continue to use existing distributionsystem for irrigation/livestock water supply.

REVISIONS	
BY	DATE

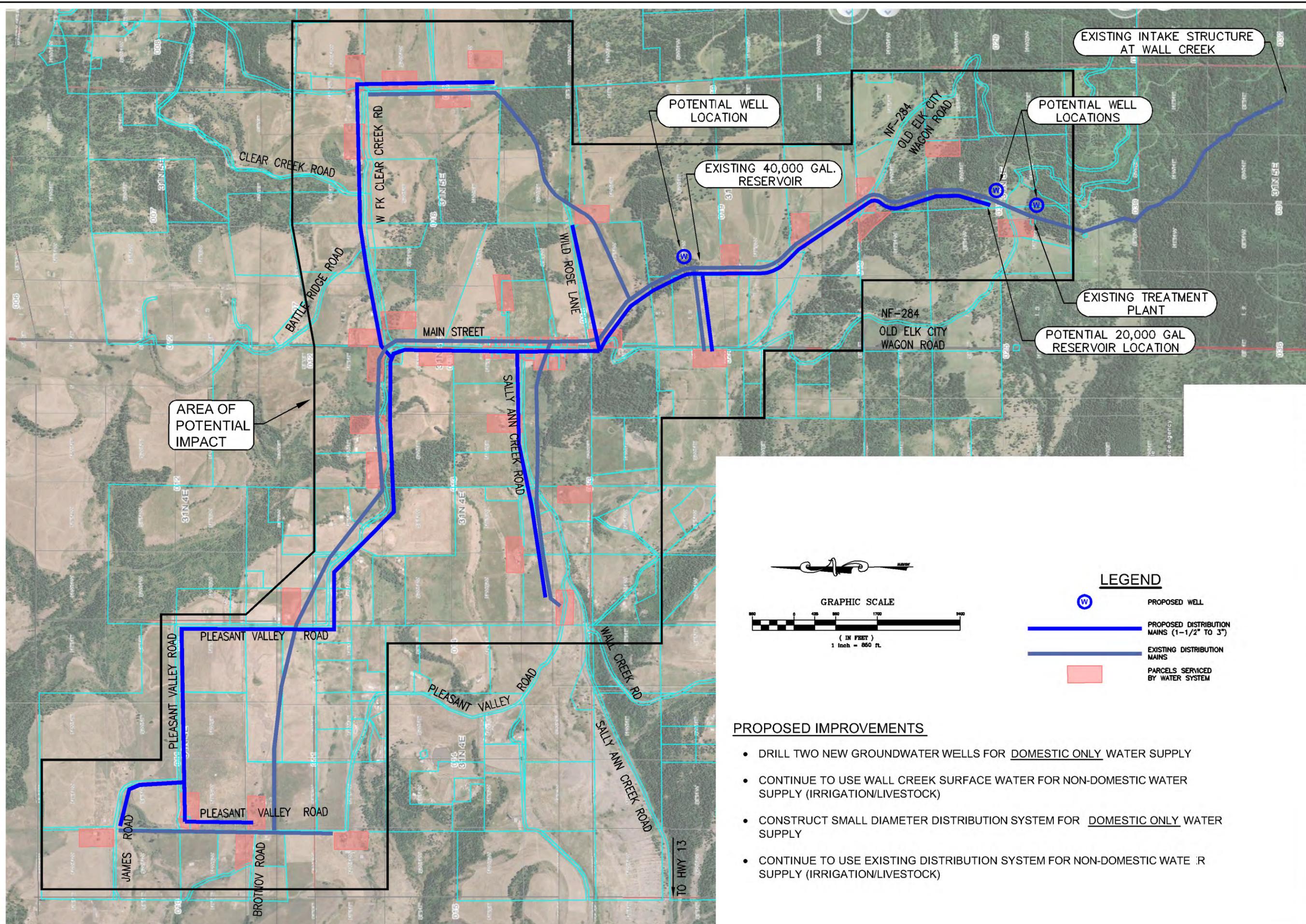


TD&H  
Engineering

SEATTLE, BOZEMAN, IDAHO  
SPOKANE, WASHINGTON  
LEWISTON, IDAHO

DRAWN BY: HRC  
DESIGNED BY:  
QUALITY CHECK:  
DATE: 4/20/12  
JOB NO. L11-017  
FIELDBOOK

CLEARWATER WATER DISTRICT  
 IDAHO COUNTY, IDAHO  
 DUAL DISTRIBUTION SYSTEM ALTERNATIVES



PRELIMINARY

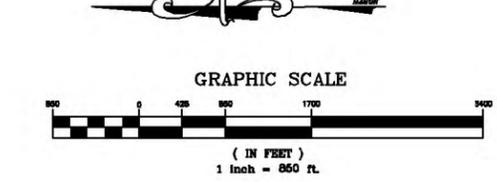
REVISIONS	DATE	BY	DESCR


  
 T D & H Engineering
   

 148engineering.com
   
 800.441.1111
   
 SPOKANE WASHINGTON
   
 LEVISTON IDAHO

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 QUALITY CHECK:
   
 DATE: 4/12/20
   
 JOB NO. L11-017
   
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**CLEARWATER WATER DISTRICT**  
 IDAHO COUNTY, IDAHO  
**SELECTED ALTERNATIVE**  
**COMBINATION GROUND & SURFACE WATER WITH DUAL DISTRIBUTION**



**LEGEND**

	PROPOSED WELL
	PROPOSED DISTRIBUTION MAINS (1-1/2" TO 3")
	EXISTING DISTRIBUTION MAINS
	PARCELS SERVICED BY WATER SYSTEM

**PROPOSED IMPROVEMENTS**

- DRILL TWO NEW GROUNDWATER WELLS FOR DOMESTIC ONLY WATER SUPPLY
- CONTINUE TO USE WALL CREEK SURFACE WATER FOR NON-DOMESTIC WATER SUPPLY (IRRIGATION/LIVESTOCK)
- CONSTRUCT SMALL DIAMETER DISTRIBUTION SYSTEM FOR DOMESTIC ONLY WATER SUPPLY
- CONTINUE TO USE EXISTING DISTRIBUTION SYSTEM FOR NON-DOMESTIC WATER SUPPLY (IRRIGATION/LIVESTOCK)

## Appendix B – Violations and Deficiencies

---

LAWRENCE G. WASDEN  
Attorney General

CLIVE J. STRONG  
Deputy Attorney General  
Chief, Natural Resources Division

J. RONALD SUTCLIFFE, Bar # 6236  
Deputy Attorney General  
Department of Environmental Quality  
1410 N. Hilton, 2nd Floor  
Boise, Idaho 83706  
Telephone: (208)373-0494  
Facsimile: (208)373-0481

Attorneys for Plaintiff

IN THE DISTRICT COURT OF THE SECOND JUDICIAL DISTRICT OF  
THE STATE OF IDAHO, IN AND FOR THE COUNTY OF IDAHO

STATE OF IDAHO, DEPARTMENT  
OF ENVIRONMENTAL QUALITY,

Plaintiff,

v.

CLEARWATER WATER DISTRICT,

Defendant.

CASE NO. CV-04-35807

STIPULATED JUDGMENT AND  
ORDER

After reviewing the Stipulation of Parties for Entry of Judgment filed in the above captioned case, this Court finds that the Defendant has violated and continues to violate the Idaho Rules for Drinking Water, IDAPA 58.01.08 et seq. ("Rules").

**NOW THEREFORE, IT IS HEREBY ORDERED ADJUDGED AND  
DECREED:**

RECEIVED

MAY 06 2005

DEQ-LRO

IDAHO COUNTY DISTRICT COURT  
FILED  
AT 9:30 O'CLOCK A.M.

FEB 03 2005

ROSE E. GEHRING  
CLERK OF DISTRICT COURT

**Kathy Johnson** DEPUTY

1. Pursuant to IRCP 55(b)(1), Judgment against Defendant is entered according to law, with no award of costs, expenses or attorney's fees to either side.

2. Pursuant to Idaho Code 39-108, an injunction is issued mandating that Defendant comply with the Rules For Drinking Water, when operating, as that term is defined in IDAPA 58.01.08, the Clearwater Water District's Public Water System and specifically prohibiting Defendant from operating, as that term is defined in IDAPA 58.01.08, the Clearwater Water District's Public Water System unless it is in compliance with Idaho's Rules for Drinking Water as set forth in this Judgment Order.

3. Clearwater shall be deemed in compliance with the Idaho's Rules for Drinking Water, IDAPA 58.01.08 et seq., as long as the terms of this Judgment Order are followed.

4. This Court shall retain jurisdiction to enforce any provision of this Order including, but not limited to, alterations of the time schedule contained herein.

5. Clearwater shall submit to the Department on the time schedule below indicated any plans and specifications necessary to perform the task or where applicable, proof that the task has been completed. In the event Clearwater is unable to complete a submission on the date specified, Clearwater shall, no later than one week (7 days including weekends and holidays) prior to the date a submission is due request of the Department in writing an extension for submission of any required materials. The Department may in its sole

discretion extend any submission date. In the event the Department does not extend a date or does not respond to a request for extension, the submission shall be due on the date indicated below. Any extension of a date contained in this Judgment Order agreed to by the parties shall be so stipulated and submitted to the Court for amendment to the Judgment Order.

6. Any submission required to be filed with the Department shall be filed with a postmark no later than the due date indicated herein. Alternatively, Clearwater may FAX any submission to the Department at 208- 799-3451 as long as the original is mailed to Department within 48 hours of the FAX as shown by postal date stamp.

7. Any submission by Clearwater mailed to the Department shall be addressed to: Department of Environmental Quality, Lewiston Regional Office, 1118 "F" Street, Lewiston, Idaho 83501, attention Kerby Cole or then acting Regional Administrator.

8. Any submission required of the Department shall be mailed to Clearwater at: ~~Almon Manes or his successor on the Clearwater Board, PO Box 314, Stites ID 83552.~~

9. In order to resolve turbidity problems with the Clearwater PWS Clearwater shall hire an Engineer licensed by the State of Idaho to submit plans to the Department to correct any existing deficiencies at the Clearwater PWS which have caused and continue to cause turbidity exceedence events as defined by IDAPA 58.01.08. at the system. The Engineer shall no later than April 15, 2005 submit to the Department in accordance with Idaho Code section

39-118, plans and specifications to modify the Clearwater PWS to avoid turbidity exceedences.

10. In addition to such plans required by Paragraph 9 above, the Engineer shall submit to the Department a plan with a schedule to cure such deficiencies contained therein to:

a. resolve Clearwater's failures to properly report turbidity exceedences, and issue boil water notices as required by IDAPA 58.01.08.300.06;

b. resolve Clearwater's failures to properly measure disinfection residuals at the distribution entry point as required by IDAPA 58.01.08.300.05.a.ii.4;

c. resolve Clearwater's failures to document chemical disinfection mixing or keep an operations manual available at the water treatment plant as required by IDAPA 58.01.08.552.04.a;

d. resolve Clearwater's inability to provide proper chlorine contact time prior to distributing water to residents as required by IDAPA 58.01.08.552.05.b;

e. resolve Clearwater's failure to implement a cross connection-control program as required by IDAPA 58.01.08.550.07;

f. resolve Clearwater's failure to maintain a total coliform rule sampling plan as required by IDAPA 58.01.08.100.01.a, which adopts the Federal Total Coliform Rule, 40 C.F.R. 141.21;

11. After the Department approves the plan submitted by the Engineer pursuant to Paragraph 10 above, Clearwater shall adhere to all time limits

contained therein and implement any plan required.

12. After the Department approves the plans and specifications provided by the Engineer in accordance with Paragraph 9 above Clearwater shall:

a. no later than May 1, 2005 hold an election in accordance with Idaho Code § 42-3222 to obtain loans or otherwise take on indebtedness if such indebtedness is needed to perform any upgrades or work to the system required by the Engineer.

b. no later than July 1, 2005 commence construction of any upgrades or work to the system required by the Engineer that does not require Clearwater to take on any indebtedness.

c. no later than July 15, 2005 obtain funding for any upgrades or work to the system required by the Engineer .

d. no later than September 1, 2005 start construction of such upgrades or work to the system.

e. no later than December 1, 2005 finish construction of such upgrades or work to the system.

13. In the event an election, as specified in Paragraph 12 above, is held and Clearwater does not obtain approval to take on indebtedness to perform upgrades or work to the system and is consequently unable to perform work as required by the Engineering reports required by Paragraphs 9 and 10 above, the Department may apply to the Court for such other and further relief as may be deemed appropriate by the Court.

14. Clearwater shall employ a licensed operator who meets the licensing criteria for surface water systems as required by IDAPA 58.01.08.300.01.a within three weeks of this Order and provide proof in writing of such employment to the Department.

15. In all other respects Clearwater shall comply with all the Rules for Drinking Water as set forth in IDAPA 58.01.08 et seq.

DATED THIS 3 DAY OF February 2005.

JOHN BRADBURY

---

Honorable John Bradbury  
District Court Judge

# Drinking Water Branch

## Violations

### Return Links

Water System Detail

Water Systems

Water System Search

County Map

Glossary

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974

**\*\*Please note: some of these violations may have been resolved and/or returned to compliance. Please click on the violation to view more information on its compliance status.**

### Group Violations

Violation No.	Status	Violation Type	Violation Name	Analyte Group Code	Analyte Group Name	Water System Facility State Asgn ID	Water System Facility Name
<a href="#">2009-6529</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	<a href="#">ZDBP</a>	DBP - TTHM AND HAA5	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2009-5952</a>	V	03	MONITORING, ROUTINE MAJOR	<a href="#">ZARS</a>	ARSENIC (1005)	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-4889</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	<a href="#">ZDBP</a>	DBP - TTHM AND HAA5	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-3806</a>	V	03	MONITORING, ROUTINE MAJOR	<a href="#">VOCS</a>	VOCS - GROUP	E0005483	WALL CREEK
<a href="#">2005-4130</a>	V	03	MONITORING, ROUTINE MAJOR	<a href="#">ZNO3</a>	NITRATE	E0005483	WALL CREEK
<a href="#">2005-4250</a>	V	03	MONITORING, ROUTINE MAJOR	<a href="#">ZARS</a>	ARSENIC (1005)	E0005483	WALL CREEK
<a href="#">2002-1183</a>	V	03	MONITORING, ROUTINE MAJOR	<a href="#">ZNO3</a>	NITRATE	E0005483	WALL CREEK

Total Number of Records Fetched = 7

### Individual Violations

Violation No.	Status	Violation Type	Violation Name	Analyte Code	Analyte Name	Water System Facility State Asgn ID	Water System Facility Name
<a href="#">2012-32408</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32398</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32399</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32400</a>	V	76	PUBLIC NOTICE RULE NOT LINKED VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32401</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-</a>			MONITORING, ROUTINE				WALL CREEK

<a href="#">32402</a>	V	38	(IESWTR/LT1), MINOR	0100	TURBIDITY	E0005483T	TREATMENT
<a href="#">2011-32403</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32404</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32405</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32406</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32407</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32396</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32397</a>	V	02	MCL, AVERAGE	2950	TTHM	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32387</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32388</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32389</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32390</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32391</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32392</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32393</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32394</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32395</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32385</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32386</a>	V	02	MCL, AVERAGE	2950	TTHM	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32374</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2011-32378</a>	V	52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	5000	LEAD & COPPER RULE	T2250011DS1	DISTRIBUTION SYSTEM

<a href="#">2011-32379</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32380</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32381</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MINOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32382</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32383</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32384</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32373</a>	V	02	MCL, AVERAGE	2950	TTHM	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32371</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32372</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2011-32364</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2011-32365</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2010-32362</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2010-32363</a>	V	75	PUBLIC NOTICE RULE LINKED TO VIOLATION	7500	PUBLIC NOTICE	null	null
<a href="#">2010-32355</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2010-32356</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32357</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32358</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32359</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32360</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32361</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-</a>			MONTHLY COMB.				WALL CREEK

<a href="#">32347</a>	V	41	FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	TREATMENT
<a href="#">2010-32348</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32349</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32350</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32351</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32352</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32353</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32354</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32341</a>	V	23	MONITORING (TCR), ROUTINE MAJOR	3100	COLIFORM (TCR)	null	null
<a href="#">2010-32342</a>	V	36	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	0999	CHLORINE	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2010-32344</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32336</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32337</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32338</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32339</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2010-32340</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32327</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32328</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
			SINGLE COMB.				

<a href="#">2009-32329</a>	V	41	FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32330</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32331</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32332</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32333</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32334</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32335</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32322</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	null	null
<a href="#">2009-32323</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	null	null
<a href="#">2009-32324</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	null	null
<a href="#">2009-32313</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32314</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32315</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32317</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32318</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32321</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32310</a>	V	SS	SPECIAL SAMPLE	0800	LT2ESWTR	null	null
<a href="#">2009-32209</a>	V	SS	SPECIAL SAMPLE	0800	LT2ESWTR	null	null
<a href="#">2009-32309</a>	V	SS	SPECIAL SAMPLE	0800	LT2ESWTR	null	null
<a href="#">2009-31609</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM

<a href="#">2009-31709</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31809</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31909</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-32009</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31409</a>	V	SS	SPECIAL SAMPLE	0800	LT2ESWTR	null	null
<a href="#">2009-31509</a>	V	SS	SPECIAL SAMPLE	0800	LT2ESWTR	null	null
<a href="#">2009-30809</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-30909</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31009</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31109</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31209</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2009-31309</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29908</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2008-30008</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30108</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30208</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30308</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30408</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30508</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1),	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT

			MAJOR				
<a href="#">2008-30608</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-30708</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29408</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29508</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29608</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29708</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29808</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28608</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28708</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28808</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28908</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-29008</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28408</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2008-28508</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-27407</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-27507</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-27707</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-</a>	V	41	SINGLE COMB. FILTER	0100	TURBIDITY	E0005483T	WALL CREEK

<a href="#">27807</a>			EFFLUENT (SWTR)				TREATMENT
<a href="#">2007-28007</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-28207</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	null	null
<a href="#">2007-28307</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	null	null
<a href="#">2007-26707</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26807</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26907</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-27007</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-27107</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26207</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26307</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26407</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26507</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-26607</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-25707</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483	WALL CREEK
<a href="#">2007-25807</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483	WALL CREEK
<a href="#">2007-24907</a>	V	02	MCL, AVERAGE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2007-25407</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2007-25507</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-</a>	V	22	MCL (TCR),	3100	COLIFORM (TCR)	null	null

<a href="#">24806</a>			MONTHLY				
<a href="#">2006-24206</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24306</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24406</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24506</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24606</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24706</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-24006</a>	V	38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-23406</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-23506</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-22906</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-23006</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-23106</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2006-23306</a>	V	01	MCL, SINGLE SAMPLE	2950	TTHM	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-22205</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-22305</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-22405</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-22505</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-22605</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-</a>	V	41	SINGLE COMB. FILTER	0100	TURBIDITY	E0005483T	WALL CREEK

<a href="#">22705</a>			EFFLUENT (SWTR)				TREATMENT
<a href="#">2005-22105</a>	V	22	MCL (TCR), MONTHLY	3100	COLIFORM (TCR)	null	null
<a href="#">2005-21605</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-21705</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-21805</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-21905</a>	V	41	MONTHLY COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-22005</a>	V	41	SINGLE COMB. FILTER EFFLUENT (SWTR)	0100	TURBIDITY	E0005483T	WALL CREEK TREATMENT
<a href="#">2005-21305</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	0999	CHLORINE	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-21405</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	0999	CHLORINE	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-21505</a>	V	27	MONITORING, ROUTINE (DBP), MAJOR	0999	CHLORINE	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-18705</a>	V	52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	5000	LEAD & COPPER RULE	null	null
<a href="#">2005-21105</a>	V	01	MCL, SINGLE SAMPLE	2456	TOTAL HALOACETIC ACIDS (HAA5)	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2005-21205</a>	V	01	MCL, SINGLE SAMPLE	2950	TTHM	T2250011DS1	DISTRIBUTION SYSTEM
<a href="#">2000-700</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-800</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-900</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1000</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1100</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1200</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1300</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1400</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">2000-1500</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null

<a href="#">1999-2599</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-2699</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-2799</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-2899</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-2999</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3099</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3199</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3299</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3399</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3499</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3599</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1999-3699</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-498</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-598</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-698</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-1698</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-1798</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-1898</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-1998</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-2098</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-2198</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-</a>			RES DISINFECT				

<a href="#">2298</a>	V	41	CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-2398</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1998-2498</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5397</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5497</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5597</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5697</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5797</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5897</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-5997</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-6097</a>	V	24	MONITORING (TCR), ROUTINE MINOR	3100	COLIFORM (TCR)	null	null
<a href="#">1997-6197</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-6297</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-6397</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-6497</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1997-6597</a>	V	24	MONITORING (TCR), ROUTINE MINOR	3100	COLIFORM (TCR)	null	null
<a href="#">1997-6697</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-8696</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-8796</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-8896</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-8996</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9096</a>	V	41	RES DISINFECT CONCENTRATION	0200	SWTR	null	null

			(SWTR)				
<a href="#">1996-9196</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9296</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9396</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9496</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9596</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9896</a>	V	03	MONITORING, ROUTINE MAJOR	2990	BENZENE	E0005483	WALL CREEK
<a href="#">1996-9996</a>	V	03	MONITORING, ROUTINE MAJOR	2982	CARBON TETRACHLORIDE	E0005483	WALL CREEK
<a href="#">1996-10096</a>	V	03	MONITORING, ROUTINE MAJOR	2977	1,1-DICHLOROETHYLENE	E0005483	WALL CREEK
<a href="#">1996-10196</a>	V	03	MONITORING, ROUTINE MAJOR	2380	CIS-1,2-DICHLOROETHYLENE	E0005483	WALL CREEK
<a href="#">1996-10296</a>	V	03	MONITORING, ROUTINE MAJOR	2979	TRANS-1,2-DICHLOROETHYLENE	E0005483	WALL CREEK
<a href="#">1996-10396</a>	V	03	MONITORING, ROUTINE MAJOR	2980	1,2-DICHLOROETHANE	E0005483	WALL CREEK
<a href="#">1996-10496</a>	V	03	MONITORING, ROUTINE MAJOR	2983	1,2-DICHLOROPROPANE	E0005483	WALL CREEK
<a href="#">1996-10596</a>	V	03	MONITORING, ROUTINE MAJOR	2968	O-DICHLOROBENZENE	E0005483	WALL CREEK
<a href="#">1996-10696</a>	V	03	MONITORING, ROUTINE MAJOR	2969	P-DICHLOROBENZENE	E0005483	WALL CREEK
<a href="#">1996-10796</a>	V	03	MONITORING, ROUTINE MAJOR	2992	ETHYLBENZENE	E0005483	WALL CREEK
<a href="#">1996-10896</a>	V	03	MONITORING, ROUTINE MAJOR	2989	CHLOROBENZENE	E0005483	WALL CREEK
<a href="#">1996-10996</a>	V	03	MONITORING, ROUTINE MAJOR	2996	STYRENE	E0005483	WALL CREEK
<a href="#">1996-11096</a>	V	03	MONITORING, ROUTINE MAJOR	2987	TETRACHLOROETHYLENE	E0005483	WALL CREEK
<a href="#">1996-11196</a>	V	03	MONITORING, ROUTINE MAJOR	2981	1,1,1-TRICHLOROETHANE	E0005483	WALL CREEK
<a href="#">1996-11296</a>	V	03	MONITORING, ROUTINE MAJOR	2984	TRICHLOROETHYLENE	E0005483	WALL CREEK
<a href="#">1996-11396</a>	V	03	MONITORING, ROUTINE MAJOR	2991	TOLUENE	E0005483	WALL CREEK
<a href="#">1996-11496</a>	V	03	MONITORING, ROUTINE MAJOR	2955	XYLENES, TOTAL	E0005483	WALL CREEK
<a href="#">1996-9696</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1996-9796</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-3895</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-3995</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-</a>	V	41	RES DISINFECT CONCENTRATION	0200	SWTR	null	null

<a href="#">4095</a>			(SWTR)				
<a href="#">1995-4195</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4295</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4395</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4495</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4595</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4695</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4795</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4895</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1995-4995</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-6794</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-6894</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-6994</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7094</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7194</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7294</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7394</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7494</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7594</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7694</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7794</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1994-7894</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null

<a href="#">1993-5093</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1993-5193</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1993-5293</a>	V	41	RES DISINFECT CONCENTRATION (SWTR)	0200	SWTR	null	null
<a href="#">1987-13587</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1987-18387</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1986-15386</a>	V	02	MCL, AVERAGE	0100	TURBIDITY	null	null
<a href="#">1986-15286</a>	V	02	MCL, AVERAGE	0100	TURBIDITY	null	null
<a href="#">1986-14886</a>	V	02	MCL, AVERAGE	0100	TURBIDITY	null	null
<a href="#">1986-14786</a>	V	02	MCL, AVERAGE	0100	TURBIDITY	null	null
<a href="#">1986-14686</a>	V	02	MCL, AVERAGE	0100	TURBIDITY	null	null
<a href="#">1985-15585</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1985-13885</a>	V	03	MONITORING, ROUTINE MAJOR	0100	TURBIDITY	null	null
<a href="#">1985-13785</a>	V	03	MONITORING, ROUTINE MAJOR	0100	TURBIDITY	null	null
<a href="#">1985-13685</a>	V	03	MONITORING, ROUTINE MAJOR	0100	TURBIDITY	null	null
<a href="#">1984-18084</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-18284</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-17984</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-18184</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-17884</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-17484</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-17784</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-17384</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-17684</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-17284</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-17584</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-17084</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-17184</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-16984</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-16884</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-16784</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-</a>			MONITORING,				

<a href="#">16484</a>	V	03	ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1984-16684</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-16584</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1984-16384</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-16283</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-15783</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-16183</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-15483</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-16083</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-15083</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-14983</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-15183</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-14383</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-14283</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-14583</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-14183</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-14483</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-14083</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1983-3783</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1983-13983</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1982-15882</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1982-15682</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1982-15982</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1982-282</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1982-8082</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1982-382</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-181</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1981-11781</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-7981</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-11681</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-11581</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-8581</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1981-</a>	V	03	MONITORING,	3000	COLIFORM (PRE-TCR)	null	null

<a href="#">8381</a>			ROUTINE MAJOR				
<a href="#">1981-8281</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12980</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-13480</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12880</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-13380</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12780</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-8480</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12680</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-12580</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-12480</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-12380</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-8180</a>	V	03	MONITORING, ROUTINE MAJOR	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12280</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-13280</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-12180</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-12080</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-13180</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null
<a href="#">1980-11980</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-11880</a>	V	03	MONITORING, ROUTINE MINOR	0100	TURBIDITY	null	null
<a href="#">1980-13080</a>	V	02	MCL, AVERAGE	3000	COLIFORM (PRE-TCR)	null	null

**Total Number of Records Fetched = 354**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D110628029-001	<b>Collection Date :</b>	06-27-2011

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	80.0 UG/L	04-01-2011	06-30-2011
2950	TTHM	null	N		0E-9	63.7 UG/L	04-01-2011	06-30-2011

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D110324019-001	<b>Collection Date :</b>	03-23-2011

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAAS)	null	N		0E-9	63.4 UG/L	01-01-2011	03-31-2011
2950	TTHM	null	N		0E-9	58.8 UG/L	01-01-2011	03-31-2011

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	DI01214039-001	<b>Collection Date :</b>	12-13-2010

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	85.9 UG/L	10-01-2010	12-31-2010
2950	ITHM	null	N		0E-9	100 UG/L	10-01-2010	12-31-2010

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D100819035-001	<b>Collection Date :</b>	08-18-2010

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	107 UG/L	07-01-2010	09-30-2010
2950	TTHM	null	N		0E-9	103 UG/L	07-01-2010	09-30-2010

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D100623062-001	<b>Collection Date :</b>	06-22-2010

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	82.1 UG/L	04-01-2010	06-30-2010
2950	TTHM	null	N		0E-9	83.5 UG/L	04-01-2010	06-30-2010

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D100317042-001	<b>Collection Date :</b>	03-16-2010

Water System Detail

Water Systems

Water System Search

County Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	93.3 UG/L	01-01-2010	03-31-2010
2950	TTHM	null	N		0E-9	69.9 UG/L	01-01-2010	03-31-2010

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

**Return Links**

Non-Coliform Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D091218008-001	<b>Collection Date :</b>	12-16-2009

Water System Detail

Water Systems

Water System Search

County Map

**Glossary**

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	48.8 UG/L	10-01-2009	12-31-2009
2950	TTHM	null	N		0E-9	45.6 UG/L	10-01-2009	12-31-2009

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D090930051-001	<b>Collection Date :</b>	09-29-2009

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	65.4 UG/L	07-01-2009	09-30-2009
2950	TTHM	null	N		0E-9	68.3 UG/L	07-01-2009	09-30-2009

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D090325020-001	<b>Collection Date :</b>	03-24-2009

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9	75.7 UG/L	01-01-2009	03-31-2009
2950	TTHM	null	N		0E-9	50.1 UG/L	01-01-2009	03-31-2009

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D081216030-001	<b>Collection Date :</b>	12-15-2008

Analyte  
List

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9 MG/L	81.5 UG/L	10-01-2008	12-31-2008
2950	TTHM	null	N		0E-9 MG/L	85.9 UG/L	10-01-2008	12-31-2008

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D080924056-001	<b>Collection Date :</b>	09-23-2008

Analyte  
List

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9 MG/L	73.2 UG/L	07-01-2008	09-30-2008
2950	TTHM	null	N		0E-9 MG/L	64.2 UG/L	07-01-2008	09-30-2008

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D080627027-001	<b>Collection Date :</b>	06-26-2008

Analyte  
List

Water  
System  
Detail

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2950	TTHM	null	N		0E-9 MG/L	73.1 UG/L	04-01-2008	06-30-2008

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

**Total Number of Records Fetched = 1**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D080325028-001	<b>Collection Date :</b>	03-24-2008

Analyte  
List

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9 MG/L	52.9 UG/L	01-01-2008	03-31-2008
2950	TTHM	null	N		0E-9 MG/L	60.7 UG/L	01-01-2008	03-31-2008

**Total Number of Records Fetched = 2**

# Drinking Water Branch

## Non-Coliform Sample Results

Return  
Links

Non-  
Coliform  
Samples

<b>Water System No. :</b>	ID2250011	<b>Federal Type :</b>	C
<b>Water System Name :</b>	CLEARWATER WATER DIST	<b>State Type :</b>	C
<b>Principal County Served :</b>	IDAHO	<b>Primary Source :</b>	SW
<b>Status :</b>	A	<b>Activity Date :</b>	01-01-1974
<b>Lab Sample No. :</b>	D071003008-001	<b>Collection Date :</b>	10-01-2007

Analyte  
List

Water  
System  
Detail

Water  
Systems

Water  
System  
Search

County  
Map

Glossary

Analyte Code	Analyte Name	Method Code	Less than Indicator	Level Type	Reporting Level	Concentration level	Monitoring Period Begin Date	Monitoring Period End Date
2456	TOTAL HALOACETIC ACIDS (HAA5)	null	N		0E-9 MG/L	71.7 UG/L	10-01-2007	12-31-2007
2950	TTHM	null	N		0E-9 MG/L	60.1 UG/L	10-01-2007	12-31-2007

**Total Number of Records Fetched = 2**



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1118 F Street • Lewiston, Idaho 83501 • (208) 799-4370  
October 12, 2011

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

Lyle Smith, Chairman  
Clearwater Water District  
P.O. Box 314  
Stites Idaho 83552

Subject: Enhanced Sanitary Survey Conducted on September 19, 2011, Clearwater Water District, ID2250011

Dear Mr. Smith

A copy of the Enhanced Sanitary Survey Report and the Photo Log for Clearwater Water District public drinking water system are enclosed for your records. This report provides a list of the significant deficiencies, deficiencies and recommended improvements for your system. Per *Idaho Rules for Public Drinking Water Systems* (IDAPA 58.01.08) the listed significant deficiencies require consultation, corrective actions and verification of these actions according to the following timeline:

- By **November 12, 2011** the Clearwater Water District must submit a corrective action plan (CAP) for addressing the deficiencies noted in the Enhanced Sanitary Survey Report. For specific corrective actions that will take longer than six months to complete, an alternative compliance schedule must be approved by DEQ. Please contact DEQ, Lewiston Regional Office for help in developing your CAP and alternative compliance schedule;
- By **April 10, 2012**, the Clearwater Water District must be in compliance with the DEQ-approved CAP;
- By **May 10, 2012**, the Clearwater Water District shall notify DEQ in writing that the CAP has been completed. Supporting evidence such as photographs must also be submitted at that time;
- Be in compliance with DEQ-approved alternative compliance schedule and notify DEQ within 30 days of completion of the alternative compliance schedule.

Please contact me regarding the significant deficiencies and deficiencies identified in the Survey Report for consultation on the Clearwater Water District corrective action plan. As a reminder, any major modifications to existing public drinking water systems require an engineering report be submitted to the DEQ for review and approval prior to or concurrent with the submittal of plans and specifications, as required by IDAPA 58.01.08.503 & .504.

Thank you for your time and assistance in the completion of this survey. If you have any questions or comments please do not hesitate to contact me by phone at (208) 799-4370 or by email at [jerry.shaffer@deq.idaho.gov](mailto:jerry.shaffer@deq.idaho.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry W. Shaffer".

Jerry W. Shaffer, P.E.  
Drinking Water Analyst

Enclosure

## Drinking Water System Sanitary Survey Report

<b>SYSTEM:</b>	Clearwater Water District	<b>SURVEY DATE:</b>	9/19/2011
<b>PWS No.:</b>	ID2250011	<b>INSPECTED BY:</b>	Jerry W. Shaffer, P.E. Staff Engineer

This report summarizes the findings of the sanitary survey inspection of the Clearwater Water District public drinking water system. Following this summary, a list of significant deficiencies, deficiencies and recommended improvements for the referenced water system are provided.

### SURVEY SUMMARY

Clearwater Water District is a community water system located in Idaho County approximately 13 miles northeast of Grangeville and serves 100 residents (estimated) through 48 connections. It is a rural community that formed an association in 1948 and constructed the water system in 1949 with a Farmers Home Administration loan in order to provide for the community's agricultural needs in addition to their domestic needs. The original system consisted of a roughing sand filter on Wall Creek, a distribution system to the homes in the system (18,050 feet of 4" steel transmission line and 26,000 feet of steel distribution line), two 1,500 gallons buried concrete storage tanks near the first connection, and a 40,000 gallon partially buried concrete reinforced storage reservoir on Lester Gunther's property.

In 1983, the community constructed a water treatment plant, consisting of two pressure filters (100 gpm design) and hypochlorite disinfection, transmission and distribution line improvements (780 feet of 8", 10,220 feet of 6" and, 120 feet of 4" line), an 8,000 gallon partially buried concrete chlorine contact/storage tank located approximately three hundred yards northwest of the treatment building, and a filter backwash settling basin. The design and construction engineering firm was JUB Engineers.

In 1985, the Clearwater Water District was unable to meet the requirements of the Surface Water Treatment Rule and entered into a Voluntary Consent Order with the State of Idaho that was signed on September 28, 1998. This Voluntary Consent Order was mutually extended by both parties on November 21, 1001. The system was disapproved by the State of Idaho on October 13, 2003 and a Stipulated Judgment and Order was issued by the court against Clearwater Water District on February 3, 2005. A Second Stipulation to Enter Amended Judgment and Order was issued June 3, 2008

In 2008, the Clearwater Water District received approval to conduct pilot testing at the water treatment plant. The pilot test was conducted but showed that the system was unable to meet the District's needs.

The following significant deficiencies from the May 1, 2006 sanitary survey have not been addressed:

- Provisions are not made for the proper testing and disposal of water treatment plant sludge, as required by IDAPA 58.01.08.550.01, which incorporates by reference the Recommended Standards for Water Works 9.0.
- The treatment plant is not accessible by road in the winter months, as required by IDAPA 58.01.08.008.01.a.
- The Operations Plan for the water treatment plant has not been approved by the Department, as required by IDAPA 58.01.08.552.04.a.
- All dead end water mains are not equipped with a means to flush, as required by IDAPA 58.01.08.550.06j. and IDAPA 58.01.08.550.01 which incorporates by reference the Recommended Standards for Water Works 8.2.4.b.
- The 8,000 gallon Storage Tank hatch does not prevent access by insects and other potential contamination sources, as required by IDAPA 58.01.08.550.08.h.
- The 8,000 gallons storage tank and the 40,000 gallon storage tank do not have year-round access, as required by IDAPA 58.01.08.008.b.

### Source

The Clearwater Water District's water source is a single surface water stream, Wall Creek (E0005483). The intake is located approximately three miles southeast of town at N45.98206° W115.87299°. The intake structure is a concrete basin that was once used as sand roughing filter. The system has put baffles in the concrete structure but it does not provide much settling of solids. Clearwater Water District has a water right for 100 gpm. There is an access road to the intake but the intake is not accessible at all times, especially in the winter. A fence surrounds the intake site and there is a locked gate. This last spring, the intake structure overflowed and washed out the access road outside the gate. The District did repair the road, as well as several other sections of the access road that had washed out.

Wall Creek water characteristics are as follows:

- Temperature from less than 2.1° C to greater than 14.8° C
- pH from less than 6.0 to above 8.2
- Turbidity from less than 0.16 NTU to greater than 14.8 NTU
- Water samples show concentrations of Fluoride (0.6 mg/L), Chloride (1.78 mg/L), Barium (0.019 mg/L) Sulfate (1.26 mg/L) and Sodium (~5.0 mg/L). Other inorganics were non-detectable

### Treatment

The Clearwater Water District treats the Wall Creek surface water source by filtration and disinfection at the water treatment plant located at N45.99572° W115.88149°. This dual barrier is required by the Surface Water Treatment Rule. The District uses two vertical dual media pressure filters (sand and anthracite) acting in series to provide the filtration. The filters were manufactured by the Pacific Tank and Manufacturing Corporation and installed in 1983. The filters treat approximately 100,000 gpd. During the summer the District also uses two additional unapproved pre-filters that were installed in 2007 in conjunction with the existing pressure filters. These pre-filters are not used during the winter months. Finished water turbidities range from 0.02 NTU to greater than 5.39 NTU. At times, the finished water turbidity exceeds the raw water turbidity. The filtration system cannot meet the turbidity requirements of the Surface

Water Treatment Rule and has not demonstrated compliance with the removal requirements of the Surface Water Treatment Rule, Long-Term 1 Enhanced Surface Water Treatment Rule and the Long-Term 2 Enhanced Surface Water Treatment Rule. Filter backwash water goes to an unlined pond to the west of the plant.

The District chlorinates (disinfects) its surface water after filtration using sodium hypochlorite from Univar out of Redmond, Washington. This chemical is NSF certified. Contact time is provided by the buried water main to the 8,000 gallon partially buried chlorine contact/storage reservoir and the reservoir itself. There is no backup power at the water treatment plant so when the power goes out, the plant can filter and deliver water to the water storage reservoirs and distribution system without disinfecting it. All services between the water treatment plant and the 8,000 gallon tank have been removed or relocated to after the 8,000 gallon tank.

### Finished Water Storage

The Clearwater Water District has two partially-buried concrete water storage reservoirs, an 8,000 gallon reservoir and a 40,000 gallon reservoir.

The 8,000 gallon reservoir was constructed as part of the 1983 water treatment plant project. It holds less than an hour of summer demand. In addition to providing storage, it also acts as a chlorine contact basin and backwash holding reservoir. It is located at N45.99856° W115.88002°, about 300 yards northeast of the water treatment plant. The reservoir is divided into two equal-sized tanks by a concrete wall that extends from the floor upwards, and from wall to wall. About 60% up the dividing wall is a 2" hole that allows water to pass from the south to the north chambers, but ensures that at least 60% of the volume of the south chamber is available for backwash (~2,400 gallons). Once the south chamber of the reservoir has 2,400 gallons of water, the water will start spilling over to the north chamber through the 2" hole. When the south chamber is filled with 4,000 gallons, water overtops the dividing wall and flows into the north chamber through the 2" hole and over the top of the wall. An overflow pipe out the north wall of the reservoir prevents the tank from overflowing. This overflow is not downturned and does not discharge over a splash plate or similar structure, but it is screened. A drain (screened) allows the drainage of the north chamber of the reservoir and the south chamber can be drained back into the water treatment plant. The access hatch is raised, overlapping and locked, but the inside face is severely rusted and does not have a gasketed seal. The top of the reservoir and the access hatch are easily accessible. The vent extends out of the top of the tank and is downward turned and screened. The reservoir is located in a fenced pasture in a group of pine trees and there is no road to the reservoir. The operator draws daily water samples from the reservoir to determine compliance with CT requirements. The reservoir was last inspected and cleaned in 2009. The water level is measured in this reservoir using mechanical floats. This storage reservoir cannot be isolated from the system.

The 40,000 gallon reservoir is located at N46.01347° W115.88536°, on a hill north of Lester Gunther's home. This reservoir holds less than half a day of summer demand. It was constructed when the original system was built in 1949. It is located on a wooded section of a hill surrounded by hay fields and woods. There is no access road to the reservoir. A Cla-valve regulates the system pressure above the storage reservoir. The District went into the reservoir in 2009 to seal any cracks in the concrete walls and clean the interior. There is an overflow on the

north end of the reservoir that does not discharge over a splash plate but rather surfaces about 100 feet north of the reservoir parallel to the ground surface. The opening is screened. There is a drain line that surfaces less than fifty feet to the northwest of the tank and that parallels the ground and is screened. The reservoir roof is flat and sealed. The access hatch is located on the southeast corner of the reservoir and about three feet high. The hatch is overlapping, locked and sealed. A screened vent is located on the east side of the access structure about half way up. There is no means to measure the water level in the reservoir. The Cla-valve prevents the overfilling of the reservoir and when closed, backs up the water to the 8,000 gallon tank which controls the operation of the water treatment plant. This storage reservoir cannot be isolated from the system.

The District did not indicate if the original two 1,500 gallons buried concrete storage tanks had been properly abandoned. Mr. Smith only remembers one of these tanks. He believes that this is where the chlorine was originally injected. The 1983 upgrade bypassed these tanks with a new transmission line.

#### Distribution

The distribution system was partially reconstructed in 1983 with the replacement of 18,050 feet of 4" and 6" water main out of the original 26,000 feet. All pipe is galvanized steel except for a section of PVC pipe that extends from the 40,000 gallon storage reservoir to the town. The distribution system has 48 unmetered connections serving an estimated 100 people. There are two fire hydrants on the distribution system, both on 6" water mains. The system has lost pressure completely due to line breaks/repairs and the system gives verbal notice by phone to all the customers when this happens. Leaks account for greater than 15% of demand. There is no cross connection control program and the District would like assistance in starting one up.

#### Pumping, Pumps and Motors

The Clearwater Water District is entirely gravity fed and has no pumps except for the chemical feed pump for the sodium hypochlorite.

#### Monitoring, Reporting and Data Verification

The Clearwater Water District is current on all monitoring and submits monthly disinfection and turbidity reports. However, the District is past due for reporting public notifications. Proof of public notifications was due to be submitted to DEQ in July and Early October. All water users are required to be notified on a quarterly basis of: 1) treatment technique violations and to boil their water, and 2) that water being served to them exceeds disinfection byproduct maximum contaminant level(s) (MCL). Public notification is required to be provided to District residents as long as finished water turbidities exceed 0.30 NTU's in greater than 5(%) percent of monthly measurements, and as long as the disinfection byproduct MCLs are exceeded.

#### System Management Operation and Operator

The Clearwater Water District (P.O. Box 314, Stites, Idaho 83552) is governed by a five member board that meets the first Wednesday of the month, with Lyle Smith (208-926-4278 /lands39@gmail.com) acting as chairman. The Responsible Charge Operator is Richard J. Schaack (208-926-7783/schaack@wildblue.net) and he is licensed as DTW1-13423 and DWDVSW-11431. There is no licensed back-up operator though Richard Schaack's son,

**Randy Schaack is in the process of getting his license. The District uses the City of Kamiah as their unofficial backup operator. This relationship needs to be formalized. The system does not have a routine maintenance schedule nor does it have a current operations and maintenance manual.**

**The drinking water system is presently disapproved by the State of Idaho due to its inability to meet removal requirements and turbidity limits. The system is under a Second Stipulation to Enter Amended Judgment and Order (June 3, 2008). The District is working with its engineers and grant writer to resolve its disapproval status.**

## SIGNIFICANT DEFICIENCIES

### *Storage:*

1. The manhole access for the 8,000 gallons storage tank does not have a cover that is water tight and the cover is not hinged on one side, as required by IDAPA 58.01.08.544.07.c.
2. The 8,000 gallon storage tank has an overflow that does not have a vertical section of pipe at least two (2) pipe diameters in length, as required by IDAPA 58.01.08.554.06.b.

### *Distribution:*

1. 15% or more of the water is unaccounted for, which is not in accordance with IDAPA 58.01.08.542.10.
2. All dead end water mains are not equipped with a means to flush, as required by IDAPA 58.01.08.42.09.
3. All dead end water mains are not flushed at least semiannually, as required by IDAPA 58.01.08.542.09.
4. There is no cross connection control program for the public water system, as required by IDAPA 58.01.08.552.06.

### *Managerial:*

1. No Substitute Responsible Charge Operator (OP): When the Responsible Charge Operator (DO) was not available, a substitute Responsible Charge Operator was not designated to take over the PWS responsibilities, as required by IDAPA 58.01.08.554.03.
2. Failure to provide public notification and/or report proof of public notification to the Idaho Department of Environmental Quality. IDAPA 58.01

### *Treatment Application:*

1. Modifications: The system has not received plan and specification approval (for the addition of the pre-filters) pursuant to IDAPA 58.01.08.504.
2. Cross-connection control is not provided on the service water lines that discharge to the solution tanks, as required by IDAPA 58.01.08.531.02.f.i.
3. All threaded non-sample taps are not equipped with an appropriate backflow prevention device, as required by IDAPA 58.01.08.541.01.n.
4. Adequate ventilation is not provided in the treatment building for the dissipation of excess heat and moisture from the equipment, as required by IDAPA 58.01.08.541.01.e. At the time of the inspection there was evidence of corrosion of metallic components from excessive heat and/or moisture

### *Disinfection:*

1. There is no auxiliary power on-site for the chlorine chemical pump, as required by IDAPA 58.01.08.501.07.

## **DEFICIENCIES**

### ***General Information:***

1. All previously required Significant Deficiencies and Deficiencies identified in the last Sanitary Survey have not been addressed, as required by IDAPA 58.01.08.008.02 or IDAPA 58.01.08.302.03 and IDAPA 58.01.08.302.04.

### ***Storage:***

1. For the 8,000 gallon storage reservoir, one or more of the overflows are not brought down to an elevation between 12 and 24 inches above the ground surface, as required by IDAPA 58.01.08.544.06.
2. For the 8,000 gallon storage reservoir, the overflow does not discharge over a drainage inlet structure or splash plate, as required by IDAPA 58.01.08.544.06.
3. For the 40,000 gallon storage reservoir, one or more of the overflows are not brought down to an elevation between 12 and 24 inches above the ground surface, as required by IDAPA 58.01.08.544.06.
4. The 40,000 gallon storage reservoir, which provides pressure directly to the distribution system, is not designed so that it can be isolated from the distribution system without causing a loss of pressure in the distribution system, as required by IDAPA 58.01.08.546.02.
5. The vent for the 40,000 gallon storage reservoir does not open downward, as required by IDAPA 58.01.08.544.08.d.

### ***Managerial:***

1. An operation and maintenance manual is not provided for the PWS or the operation and maintenance manual is incomplete, not having daily operating instructions and/or operator safety procedures and/or location of valves and other key system features and/or parts list and parts order form and/or information for contacting the water system operator, as required by IDAPA 58.01.08.501.12.

## **RECOMMENDATIONS**

### ***Storage:***

1. Storage Tank Water Level Measurement – At the time of the inspection the Public Drinking Water System (PWS) does not have a means to measure the water level in the storage unit (40,000 gallon reservoir). DEQ recommends the PWS provide the operator with the ability to easily monitor and measure the water level in the storage unit.
2. Date Last Inspection (2009) – DEQ recommends that all storage tanks be inspected for integrity and silt build up annually.

### ***Distribution:***

1. DEQ recommends that all valves be exercised at least annually.
2. DEQ recommends the Public Water System set up a water conservation program.
3. DEQ recommends that all main lines be flushed annually.
4. DEQ recommends the certified operator obtain training in cross connection control

### ***Managerial:***

1. DEQ recommends that a routine maintenance schedule be established and adhered to.

**Significant Deficiency & Deficiency Corrective Action Plan for Clearwater Water District, ID2250011**

Table 1. Corrective Action Plan

Significant Deficiency	Corrective Action	Planned Completion Date	Actual Completion Date	Initials (when complete)
Storage 1 - No water tight cover and cover not hinged				
Storage 2 - Overflow has no vertical section of pipe				
Distribution 1 - 15% of water unaccounted for				
Distribution 2 - Dead end mains not equipped with means to flush				
Distribution 3 - Dead end mains not flushed twice yearly				
Distribution 4 - No cross connection control plan				
Managerial 1 - No licensed substitute operator				
Managerial 2 - PUBLIC NOTICE				
Treatment 1 - Unapproved modifications at water plant				
Treatment 2 - No backflow prevention on lines to solution tanks				
Treatment 3 - No backflow prevention on threaded non-sample taps				

300  
 750  
 50,000  
 6,000  
 500  
 300  
 2,500  
 100  
 2  
 1,000  
 1,000

Significant Deficiency	Corrective Action	Planned Completion Date	Actual Completion Date	Initials (when complete)
Treatment 4 - Inadequate venting in water treatment plant building				
Disinfection 1 - No auxiliary power for chlorine pump				
Deficiency	Corrective Action	Planned Completion Date	Actual Completion Dte	Initials (when complete)
General 1 - Previous Deficiencies				
Storage 1 - Overflow not brought down to 12 to 24 inches				
Storage 2 - Overflow does not discharge of structure or plate.				
Storage 3 - Overflow not brought down to 12 to 24 inches				
Storage 4 - Cannot isolate storage reservoir				
Storage 5 - Vent does not open downward				
Managerial 1 - Operations and Maintenance Manual				

I certify, to the best of my knowledge that all significant deficiencies have been corrected and meet the requirements pursuant to IDAPA 58.01.08. (\*\*\*)signature when all deficiencies have been corrected, initials after each date when corrected)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Appendix C – 2007 EID Excerpts

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10/17

**ENGINEERING REPORT ADDENDUM  
FOR WATER SYSTEM IMPROVEMENTS  
FILTRATION PLANT IMPROVEMENTS  
Clearwater Water District**

Project No. 904000

August 2007  
Resubmitted September 2007

Prepared for:

Clearwater Water District  
Lyle Smith, Chairman  
P.O. Box 314  
Stites, ID 83552

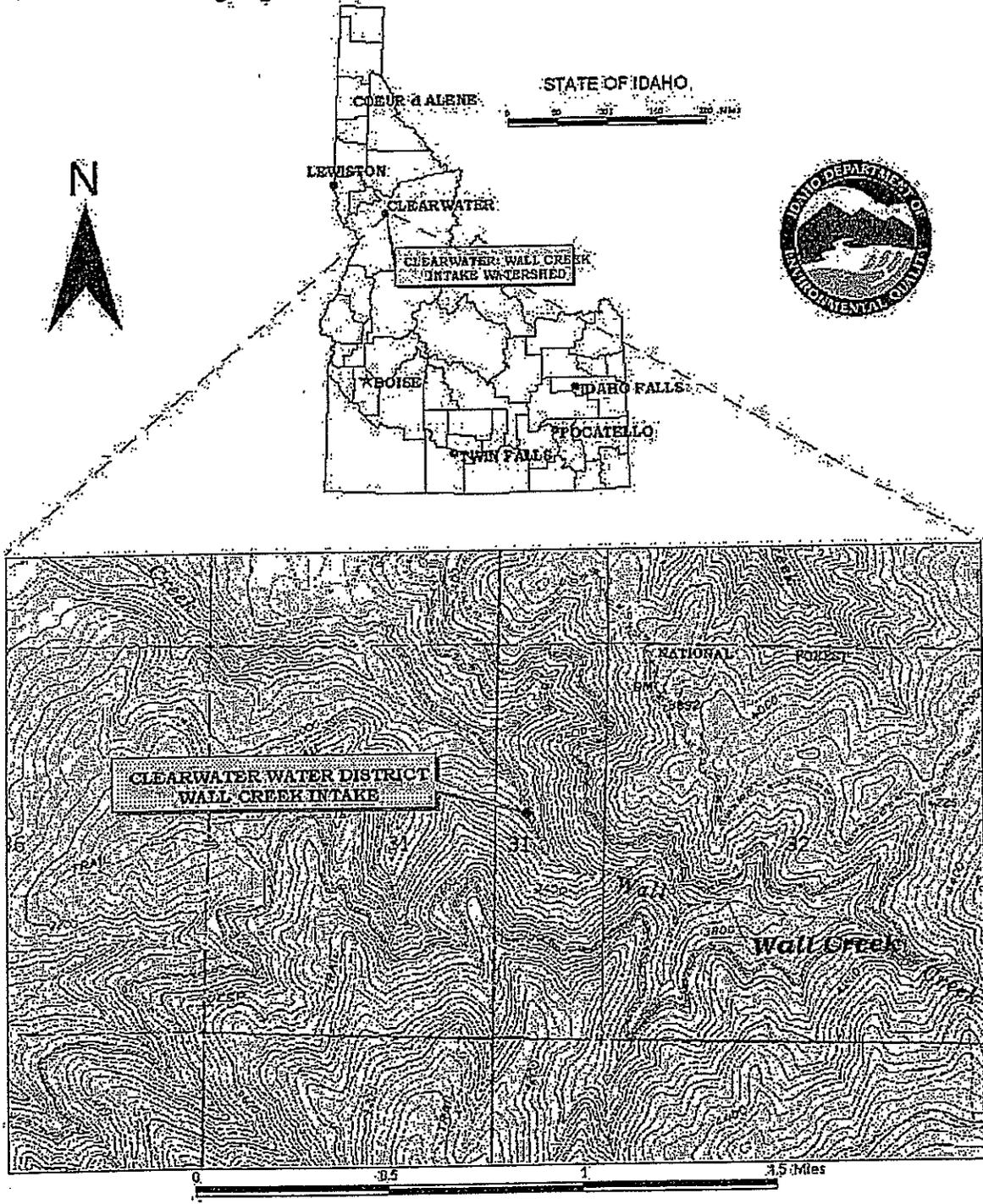
Prepared by:

**USKH**

621 W. Mallon, Suite 309  
Spokane, WA 99201  
PH: 509-328-5139  
FAX: 509-328-0423

WO# 904000

**FIGURE 1. Geographic Location of the Clearwater Water District**



From Idaho Department of Environmental Quality website, 2007.

*Topography.* The Clearwater area is situated on rolling terrain, with the proposed improvements to be placed on a bench located adjacent to the existing facility. The west edge of the proposed addition will be within five feet of an embankment around the existing backwash disposal pond.

*Geology.* The Clearwater area and the Clearwater Water District facility is located within the suture zone between the North American Continent and accreted terrain, consisting of metamorphosed rocks of the Proterozoic Belt Supergroup, intruded by Cretaceous and Eocene Plutons, and overlain in places by Miocene Basalt. Surface rock in this area could be metamorphic schists, granite, granodiorite, or basalt.

*Soils.* Site soils consist entirely of Jackknife silt loam. Site soil data is included in *Attachment 5* to this document.

### **1.6 Climate**

The climate of the site is best characterized as temperate, with average annual precipitation approximately 20-inches per year, as shown in *Attachment 6* to this document.

### **1.7 Population**

The District's total population is 90 people living in 48 residences, which comprise the total of 48 developed and served lots within the District. The projected population in 20 years is 192 people, living on a total of 80 lots with the average Idaho population per household of 2.4 (Progressive, 2005).

### **1.8 Economics and Social Profile**

Economic activity is primarily agricultural, with some forest industry employment.

### **1.9 Land Use**

Idaho County is not zoned, and has no planning and zoning departments or regulations. Lands in the District are primarily agricultural toward the north and down-gradient of the project site.

### **1.10 Flood Plain Development**

There will be no development in a floodplain associated with this project. The topography is not watershed bottom, most development has been established on 15% slopes. The nearest floodplain to this project is the south fork of the Clearwater River.

### **1.11 Wetlands**

There will be no development in a wetland or wetland buffer area associated with this project. The existing and planned reservoir site and the treatment building are situated on hilltops, with 15% sidehill slopes. The existing pipeline and planned pipeline route is along the existing gravel roadway, within the public right of way.

### 1.12 Wild and Scenic Rivers

There will be no development within a mile of a wild or scenic river associated with this project. The closest designated Wild and Scenic River is the Middle Fork of the Clearwater River, about 8 miles to the North. *This is shown in Attachment 1, Vicinity Map.*

### 1.13 Cultural Resources

The National Register of Historic Places in Idaho, and the current update list were consulted for properties near Clearwater Water District. See *Attachment 3*. The nearest sites in Idaho County were in Kooskia and the Elk City Wagon Road. A portion of the historic Elk City Wagon Road (which follows much of the Nez Perce Trail) is located near the District's water treatment facility site. Also, proposed water liner repairs will involve one crossing of the Elk City Wagon Road. The project will coordinate with the Idaho State Office of Historic Preservation prior to design and construction to assure that any cultural concerns are addressed. It currently serves as the main road south of Clearwater, and will be used by construction traffic. It is a graveled road. Construction will take place following spring thaw. The roadway will be protected from damage by only driving rubber tired vehicles over it at moderate speeds.

The Idaho State Historic Preservation Officer, Suzy Pengilly, was contacted regarding the plan to re-grade approximately seven cubic yards of material on-site to prepare for enlarging the foundation of the existing water treatment plant building. The historic Nez Perce Trail is located in the Clearwater area. Ms. Pengilly noted during a telephone conversation on September 25, 2007, that unofficially, it was unlikely that there would be a cultural resource impact. However, at the time of this publication, USKH has yet to receive a letter from the Idaho State Historic Preservation Office document affirming that conclusion. As mitigation, in the event artifacts of any kind are encountered during excavation, the contractor will be instructed to cease work and contact USKH immediately. USKH will then coordinate with the Idaho State Historic Preservation Office before any subsequent action.

### 1.14 Flora and Fauna

**MacFarlane's Four-O'Clock.** The Center for Plant Conservation's (CPC) National Collection Plant profile was consulted for native plants with habitat in the vicinity of the project site. MacFarlane's four-o'clock (*Mirabilis macfarlanei*) inhabits dry, steep sloped areas of Western Idaho. It has bright magenta flowers and purplish stems. It was listed as Endangered by the U.S. Fish and Wildlife Service (USFWS) in 1979. The species was downlisted to Threatened in 1996 due to recovery efforts begun in 1985. It is found primarily on west or southwest facing slopes in the canyon areas of the Imnaha, Snake and Salmon Rivers. Soils are sandy to talus (gravel and cobble) substrate. Elevations range from 1,000 to 3,000 feet. (CPC, 9/22/2007)

It is unlikely that MacFarlane's four-o'clock occurs in or near the project site. First, the site soils are silt loam, rather than sandy talus (USDA NRCS Web Soil Survey, personal observation). Second, the site faces northwest, rather than west or southwest. Though the site is technically in the Snake River basin, it is far up the Clearwater River in an area that receives over 20-inches of rain per year (USDA NRCS Idaho Precipitation Map). It is located at approximately 3,100 feet elevation (USGS Sites 1:24,000 topoquad). See *Attachment 4*.

**Spalding's Catchfly.** The Idaho Conservation Data Center (IDCDC) database was consulted for native plants with habitat in the vicinity of the project site. Spalding's catchfly (*Silene spaldingii*) is a rare plant endemic to the bunchgrass, sagebrush-steppe and open pine communities of the inland Pacific Northwest. Spalding's catchfly was listed as Endangered by the USFWS in 2001. The largest occurrence of Spalding's catchfly in Idaho is in canyon grasslands south of Lewiston in the Snake River Canyon, along the western flank of Craig Mountain. Other documented occurrences include the eastern flank of Craig Mountain and along the Salmon River. The plants commonly grow up to 20-60 cm tall, and typically produce one stem or rosette but can produce multiple stems or rosettes. Each stem bears 4-7 pairs of leaves that are 5-8 cm long and up to 4 cm wide. The foliage, stem and flower bracts are densely covered with sticky, gland-tipped hairs that give the species its common name, "catchfly". Flowers are cream to pink to light green and typically have five petals, each with a long narrow claw that is largely concealed by the outer, green portion of the flower. Precipitation data collected between 2002 and 2005 appears to indicate average annual rainfall of about 15-inches in the habitat recovery study area on Craig Mountain.

It is unlikely that Spalding's Catchfly occurs at the project site. The only documented occurrences in Idaho are at Craig Mountain, which is located approximately 45 miles to the west of the project site, with the Clearwater River and the Cottonwood high plateau in between. The project site was highly disturbed when it was constructed in 1983. The immediate area is forested rather than grassland. The Craig Mountain sites are considerably lower (1,730 feet) than the project site. Before the project planning proceeds, the description above will be used to identify any suspected occurrence of this species. *See Attachment 4.*

**Gray Wolf.** The USFWS lists the gray wolf (*Canis lupus*) as experimental/non-essential population in Idaho County. At the time of this writing, gray wolves have not been sited in the vicinity of Clearwater Water District, and documentation from 2000 from the USFWS shows the nearest pack territory is located about 35 miles southeast of the project site. No further analysis of this species was conducted for this project.

**Canada Lynx.** The USFWS lists the Canada lynx (*lynx canadensis*) as Threatened in Idaho County. Lynx are medium-sized cats, generally measuring 30-35 inches long and weighing 18-23 pounds. They have tufts on their ears, short, black-tipped tails, and large, well-furred feet and long legs for traversing snow. Lynx are highly specialized predators of snowshoe hare and are strongly associated with boreal forest habitat, which individual lynx require large portions of to support their home ranges. Portions of Idaho County were originally included in the critical habitat area of the Canada lynx. However, there are no critical habitat units managed in Idaho for the Canada lynx, therefore it is unlikely the Canada lynx will occur within the project site.

As a protected species, Canada lynx are protected from take, which includes harming (e.g., shooting, killing, trapping, collecting) and harassing individual animals.

**Bald Eagle.** The USFWS lists the bald eagle (*Haliaeetus leucocephalus*) as Threatened in Idaho County. The bald eagle is a large, long-lived diurnal raptor. Body length ranges from 78 to 93 cm. The bald eagle is the only North American representative of the fish eagle or sea eagle family and is endemic to North America. Adult bald eagles have a bright yellow beak, feet and lower legs, white head and tail, and very dark brown to charcoal black wings. Immature bald

eagles (less than 4-years old) have three to four plumage classes. Bald eagle forest habitat requirements include mature, multi-layer forests in close proximity to an adequate prey base.

While there are no known bald eagle nest sites near the project site, care will be taken to not disturb any large trees that might offer potential nesting sites. It is unlikely that the Bald Eagle will occur within the project site.

**Snake River Basin Steelhead.** The National Oceanic and Atmospheric Association (NOAA) Fisheries Service lists the Snake River Basin Steelhead (*Onchorynchus mykiss*) Distinct Population Segment (DPS) as Threatened in Idaho County. The lower, approximately 1.5 miles of Wall Creek up to the confluence with Sally Ann Creek is designated by NOAA as critical habitat for the Snake River Basin Steelhead. No activities associated with this project will occur within the waters designated as critical habitat (Streamnet, 2007), therefore no impacts to this species are anticipated.

**Bull Trout.** The USFWS lists the bull trout (*Salvelinus confluentus*) as Threatened in Idaho County. No critical habitat is designated in the project area (USFWS, 2007). No activities associated with this project will occur within the waters designated as critical habitat; therefore no impacts to this species are anticipated.

**Snake River Fall Chinook Salmon.** The NOAA Fisheries Service lists the Snake River Fall Chinook Salmon (*O. tshawytscha*) as threatened in Idaho County. No activities associated with this project will occur within the waters designated as critical habitat; therefore no impacts to this species are anticipated.

**Snake River Spring/Summer Chinook Salmon.** The NOAA Fisheries Service lists the Snake River Spring/Summer Chinook Salmon (*O. tshawytscha*) as threatened in Idaho County. No activities associated with this project will occur within the waters designated as critical habitat; therefore no impacts to this species are anticipated.

The Endangered Species Act (ESA) defines a "species" to include any distinct population segment of any species of vertebrate fish or wildlife. For Pacific salmon, NOAA Fisheries Service considers an evolutionarily significant unit, or "ESU," a "species" under the ESA. For Pacific steelhead, NOAA Fisheries Service has delineated DPS's for consideration as "species" under the ESA.

### 1.15 Recreation and Open Space

The project is west of the Nez Perce National Forest, but not near nor will it affect any areas of recreational open space, parks, or areas of recognized scenic or recreational value. It is not feasible to connect the project with parks, bicycle paths, hiking trails, waterway access, or other recreational uses, as the purpose of the project is solely to provide a safer source of clean drinking water to the Clearwater Water District service area.

### 1.16 Agricultural Lands

The project will not affect the adjacent areas of agricultural land. There are no areas of environmentally significant agricultural lands adjacent to the project as defined by 7 CFR Part

658, which states specifically, "Farmland does not include land already in or committed to urban development or water storage." The project is not located on land currently or previously used for agriculture, and is used in part for water storage inasmuch as it is used to store domestic water while it is being treated.

### **1.17 Air Quality**

During construction, best dust control measures will be taken to mitigate erosion raised during the very minimal earthwork required for the project. All equipment to be used during construction will be required to have functioning muffler systems that meet federal and state air quality standards. The project site is in a rural area and is not within a non-attainment zone. A map of Idaho non-attainment zones showing the relative position of the project is attached as *Attachment 7*. There will be no significant emissions of air pollutants as a result of the project.

Neither the project operation nor the construction of the project are likely to cause significant odor or noise problems. Construction activity will be restricted to normal working hours, beginning no earlier than 7:00 a.m. and finishing no later than 6:00 p.m. on weekdays, Monday through Friday.

### **1.18 Energy**

There are no identifiable measures available to save energy or recover energy as a result of the project. Project specifications will include provisions to use normally available energy efficient equipment for the project.

### **1.19 Regionalization**

Regionalization in addition to that already applied by the existence of the Clearwater Water District is not economically feasible due to the large distance to other population centers such as Stites and Harpster.

## **MAPS, CHARTS, AND TABLES**

Refer to the table of contents of this Appendix, and to the table of contents of the Engineering Report Addendum.

## **ENVIRONMENTAL IMPACTS TO PROPOSED PROJECT**

The EID finds no significant impacts for the proposed project.

## **MEANS TO MITIGATE ADVERSE ENVIRONMENTAL IMPACTS**

In the event any undiscovered environmental condition should arise (such as previously unknown artifacts) the contractor and work crew will stop work and immediately report to the USKH Project Manager. The contractor and crew will be required to review this EID prior to work starting.

## Appendix D – Environmental Agency Responses

# Terry Kristof - Fwd: RE: Clearwater Water District Flood plain request for information

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**From:** Terry Kristof

**Subject:** Fwd: RE: Clearwater Water District Flood plain request for information

---

>>> "McGown, Mary" <Mary.McGown@idwr.idaho.gov> 11/16/2012 12:28 PM >>>

Terry,

There is a mapped A zone within the project boundary. I've attached a Firmette of the area. It appears to intersect with project elements at one place. Rabbit Creek intersects the existing distribution main that is the same alignment as a proposed 1 ½" water main in T31NR5E the line between Sections 17 and 18.

Since Idaho County is enrolled in the National Flood Insurance Program (NFIP) there are minimum requirements for development in a mapped flood hazard area. The main requirement likely to affect this project is that a floodplain development permit needs to be issued by the county before land disturbing work begins. Please contact Kathy Ackerman, County Clerk, who is the floodplain administrator

As I mentioned to you in our phone conversation, the federal minimum regulations are general for water system improvements. These criteria can be met through careful system design.

*[The community must] Require within flood-prone areas new and replacement water supply systems to be designed to minimize or eliminate infiltration of flood waters into the systems: 44 CFR 60.3(a)(5)*

If you have additional questions, please let me know.

Mary G. McGown, Ph.D., CFM  
State Floodplain Coordinator  
Idaho Department of Water Resources  
322 E. Front Street  
P.O. Box 83720  
Boise, ID 83720-0098  
(208) 287-4928  
(208) 830-4174 mobile  
(208) 287-6700 fax

**From:** Terry Kristof [mailto:Terry.Kristof@tdhengineering.com]  
**Sent:** Thursday, November 15, 2012 12:11 PM  
**To:** McGown, Mary  
**Subject:** Fwd: Clearwater Water District Flood plain request for information

Here's another copy, might be easier to find.

Terry

**Terry Kristof, P.G., P.H.G. | Geologist**

**TD&H Engineering**

210 Main Street | Lewiston, ID 83501

t:208.746.5406

[www.tdhengineering.com](http://www.tdhengineering.com)

>>> Terry Kristof 11/12/2012 11:27 AM >>>

Dear Dr. McGown,

Please review the enclosed maps for the proposed locations of the Clearwater Water District improvements. We are requesting your comments regarding potential flood plains in the area of proposed improvements for an environmental assessment as there are no FEMA maps available for this area. Please respond at your earliest convenience. If it is faster or easier for you I can be reached by telephone at 208-746-0938 during working hours, or at my home office 208-843-5280 at any time.

Thank you for your help in this matter,

Terry Kristof

**Terry Kristof, P.G., P.H.G. | Geologist**

**TD&H Engineering**

210 Main Street | Lewiston, ID 83501

t:208.746.5406

[www.tdhengineering.com](http://www.tdhengineering.com)

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**Terry Kristof - Fwd: RE: Clearwater Water District, Idaho (UNCLASSIFIED)**

---

**From:** Terry Kristof

**Subject:** Fwd: RE: Clearwater Water District, Idaho (UNCLASSIFIED)

---

>>> "Martinez, Greg J NWW" <Greg.J.Martinez@usace.army.mil> 2/6/2013 8:32 AM >>>

Classification: UNCLASSIFIED

Caveats: NONE

Terry,

2-6-2013

I have looked over the information you sent to me. It appears that the new 3" main line as it extends south of Clearwater would cross Sally Ann Creek and the 2" main line from Clearwater to the west appears that it would cross this same creek. If the lines are bored under the creek then approval from the Corps is not required. If the lines are installed using an open trench method then a permit from the Corps would be required as well as an individual Section 401 water quality certification from the IDEQ. Also, open trenching may require a consultation with the National Marine Fisheries Service(NMFS) under Section 7 of the Endangered Species Act. Boring the stream would be the way to go, this avoids the need for a permit from the Corps, ID. Dept. Water Resources, a 401 water quality certification and consultation with NMFS.

Greg Martinez  
Corps of Engineers  
Boise Regulatory Office  
208-345-2154

-----Original Message-----

From: Terry Kristof [mailto:Terry.Kristof@tdhengineering.com]  
Sent: Tuesday, February 05, 2013 3:21 PM  
To: Martinez, Greg J NWW  
Subject: RE: Clearwater Water District, Idaho (UNCLASSIFIED)

Greg,

Thank you, an email response would be fine and wonderful.

I didn't mean to sound like I was complaining there was no response -- sometimes that happens when there is no need to consult (with many agencies).

Terry K.

Terry Kristof, P.G., P.H.G. | Geologist  
TD&H Engineering  
210 Main Street | Lewiston, ID 83501  
t:208.746.5406  
www.tdhengineering.com <<http://www.tdhengineering.com/>>

>>> "Martinez, Greg J NWW" <Greg.J.Martinez@usace.army.mil> 2/5/2013 12:40 PM >>>

Classification: UNCLASSIFIED

Caveats: NONE

Terry,

Hard to say why you received no response, I know I am not familiar the proposed water district upgrade. Please send me the original scoping letter requesting comments along with whatever project maps you have showing the pipe line alignment. If indeed all surface stream crossings are bored and wetlands are not impacted then a permit from the Corps would not be required. Upon review of the information we can provide a letter or email response.

Greg Martinez  
Corps of Engineers  
Boise Regulatory Office  
208-345-2154

-----Original Message-----

From: Terry Kristof [mailto:Terry.Kristof@tdhengineering.com]

Sent: Tuesday, February 05, 2013 1:24 PM

To: Martinez, Greg J NWW

Subject: Clearwater Water District, Idaho

Hello Greg,

I left a message on your telephone, and this is a follow up email.

TD&H Engineering has been working on an Environmental Information Document for Clearwater Water District, Idaho County, Idaho. Our first scoping letter to the Corps did not produce a response, possibly because most of the pipeline installation will be bored and specifically any gulches or seasonal streams will be directionally drilled. These actions do not produce fill added to waters of the United States. (we are also under the impression that this is the preferred method, to avoid impacts). Our review of the wetland maps for that area showed there are no wetlands that we could impact, and again, perhaps that is why we received no response.

The Idaho DEQ needs to document a response from the Corps., and your name was given to me by IDEQ employees as being someone who could help with this. Here is a vicinity map.

I think this information will be helpful to you when you return my call.

Thanks for your help with this matter,

Terry Kristof

Terry Kristof, P.G., P.H.G. | Geologist  
TD&H Engineering  
210 Main Street | Lewiston, ID 83501  
t:208.746.5406  
www.tdhengineering.com <<http://www.tdhengineering.com/>>

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Classification: UNCLASSIFIED  
Caveats: NONE

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Classification: UNCLASSIFIED  
Caveats: NONE



# Public Health

## Idaho North Central District

**Nez Perce County**

215 10<sup>th</sup> Street  
Lewiston, ID 83501  
(208) 799-3100  
Fax (208) 799-0349

**Latah County**

333 E Palouse River Drive  
Moscow, ID 83843  
(208) 882-7506  
Fax (208) 882-3494

**Clearwater County**

105 115<sup>th</sup> Street  
Orofino, ID 83544  
(208) 476-7850  
Fax (208) 476-7494

**Idaho County**

903 West Main  
Grangeville, ID 83530  
(208) 983-2842  
Fax (208) 983-2845

**Lewis County**

132 N Hill Street  
P O Box 277  
Kamiah, ID 83536  
(208) 935-2124  
Fax (208) 935-0223

TO: Terry Kristof, TD&H Engineering  
FROM: Andy Helkey  
SUBJECT: Clearwater Water District Water System Replacement  
DATE: February 11, 2013

The primary concern of Public Health – Idaho North Central District in regard to the replacement water system proposed for the Clearwater Water District is that the pressurized water lines meet setbacks to existing subsurface sewage systems. The existing water lines are located next to the ditch along the east side of the road when travelling north to south through Clearwater, Idaho. Most of the homes and their existing onsite sewage systems are also on the east side of the road. Some of these systems pre-date subsurface sewage permits so their exact location is unknown. In the past, Public Health has responded to complaint calls about surfacing effluent draining into the ditch where the water lines are currently located. It may be advisable to pursue moving the new distribution lines to the west side of the road to ensure the 25-foot setback between subsurface sewage systems and the pressurized water distribution lines can be met.

Please feel free to contact me if you have any further questions.

Environmental Health Specialist  
105 115<sup>th</sup> St  
Orofino, ID 83544

## Heather Calkins - RE: Clearwater Water District - Request for Comments

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**From:** <keithb@nezperce.org>  
**To:** <Ester.Ceja@deq.idaho.gov>  
**Date:** 4/16/2012 10:26 AM  
**Subject:** RE: Clearwater Water District - Request for Comments

---

Hi Ester,

Thanks for notification of this project. I recommend an archaeological survey of the project area and any related staging areas etc.

When this is complete, we can discuss if any further work is warranted.

Thanks, Pat

Patrick Baird  
Tribal Historic Preservation Officer/ Archaeologist  
Cultural Resource Program  
Nez Perce Tribe  
P.O. Box 365  
Lapwai, ID 83540-0365  
Office: (208) 621-3851  
Mobile: (208) 791-8610  
Fax: (208) 843-7419  
Email: [keithb@nezperce.org](mailto:keithb@nezperce.org)

---

**From:** Ester.Ceja@deq.idaho.gov [mailto:Ester.Ceja@deq.idaho.gov]  
**Sent:** Tuesday, March 13, 2012 12:18 PM  
**To:** keithb@nezperce.org  
**Subject:** Clearwater Water District - Request for Comments

Patrick,

Good afternoon. The attached letter is being mailed to you as well, but I thought I would send you the electronic version as well.

Take care,

Ester Ceja  
Sr. Water Quality Analyst  
1410 North Hilton  
Boise, Idaho 83706  
Phone (208) 373.0585  
Fax (208) 373.0576  
[Ester.Ceja@deq.idaho.gov](mailto:Ester.Ceja@deq.idaho.gov)

Heather Calkins - Clearwater Water District-Water System Improvement Project ; Species List COMM 250c

---

**From:** <Bob\_Kibler@fws.gov>  
**To:** <Heather.Calkins@TDHEngineering.com>  
**Date:** 2/24/2012 12:46 PM  
**Subject:** Clearwater Water District-Water System Improvement Project ; Species List COMM 250c  
**Attachments:** IdahoSpeciesList20110817.pdf

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Greetings Heather:

Per your request, a species list is being provided via the following email and attachment

**Idaho's Endangered, Threatened, Proposed, and Candidate Species  
(With Associated Proposed and Critical Habitats)  
Under the Jurisdiction of the Fish and Wildlife Service**  
*(This page was last updated August 17, 2011)*

The Fish and Wildlife Service is developing a web-based system that will allow you to generate your own project-specific species lists. We will provide instructions when the new web-based species list system is launched. In the interim, you are requested to use the attached table in concert with the area affected by your project, to generate your project-specific species list(s).

Before starting an action, a federal action agency (or their designated representative) that is planning an activity must contact the Fish and Wildlife Service to obtain information regarding threatened, endangered, and proposed species and their habitats, which may be present in the area affected by the project. Federal agencies (or their designated representatives) are to use this information to generate their project-specific species lists, which facilitate their assessments of effect via Sections 7(a)(2), (7(a)(3), or 7(a)(4) of the Endangered Species Act, as applicable. Please note the actual affected area typically encompasses a larger area than the footprint of the construction. The affected area includes any effects of the action (direct and indirect) that may potentially affect the species or its habitat.

The information contained and attached to this email, meets the Fish and Wildlife Services' regulatory obligation under Section 7(c) of the Endangered Species Act to provide a list of species at the request of a federal agency. Please print and retain a copy of this table and email with your project records, and use this information to verify the habitats and/or species present in the area affected by the projects you are developing. Any project-specific species lists you generate from this email and attachment is valid for up to 180-days.

Because the species information provided via this email may change, you are advised to visit our internet page (<http://www.fws.gov/idaho/species/IdahoSpeciesList.pdf>) frequently to ensure that your project records contain the most up-to-date species list. Should your project plans expand or change to include additional effects or counties, you will need to download an updated list and

prepare a new project specific species list for your project.

If you find that you need to submit a request for Section 7 Consultation, please include with your biological assessment package, a copy of this email and the attached or updated list you used to generate your project specific species list. This information is needed to document your compliance with 50 CFR 402.12(c).

Please note that this information is only applicable for Idaho. If the area affected by the proposed project extends beyond the boundary of the State of Idaho, please contact the appropriate Fish and Wildlife Service office listed below, to obtain a species list for their area of jurisdiction.

**Fish and Wildlife Service Contacts:**

Idaho Idaho Fish and Wildlife Office (208) 378-5255  
Montana Montana Ecological Services Field Office (406) 449-5225  
Nevada Nevada Fish & Wildlife Office (775) 861-6300  
Oregon La Grande Field Office (541) 962-8584  
Utah Utah Ecological Service Field Office (801) 975-3330  
Washington Spokane Field Office (509) 891-6839  
Wyoming Wyoming Ecological Services Field Office (307) 772-2374

**Candidate Species Conservation:**

Although candidate species have no protection under the Act, they are included in the attached table for your early planning consideration. Candidate species could be proposed or listed during the species that may occur in the project area; this may expedite section 7 consultation under the Act should the species become listed.

**Species of NOAA Fisheries Jurisdiction:**

Please be advised, the attached table does not contain listed or proposed species under the National Marine Fisheries Service's (NOAA Fisheries) jurisdiction. If you need a list of species under the NOAA Fisheries' jurisdiction, please visit their internet site at (<http://www.nwr.noaa.gov/Species-Lists.cfm>), or call (208) 378-5696.

*(See attached file: IdahoSpeciesList20110817.pdf)*

If you require additional assistance please contact Bob Kibler as described below.

---

Bob Kibler - Fish and Wildlife Biologist  
U.S. Department of The Interior - Fish and Wildlife Service  
Ecological Services Div - Idaho Fish and Wildlife Office  
1387 South Vinnell Way, Room 368  
Boise, Idaho USA 83709

Phone: (208) 378-5255  
Fax: (208) 378-5262  
EMail: BOB\_KIBLER@FWS.GOV



# United States Department of the Interior

## IDAHO FISH AND WILDLIFE OFFICE

1387 S. Vinnell Way, Room 368

Boise, Idaho 83709

Telephone (208) 378-5243

<http://www.fws.gov/idaho>



### **U.S. Fish and Wildlife Service - Idaho Fish and Wildlife Office** **Endangered, Threatened, Proposed, and Candidate Species** **With Associated Proposed and Critical Habitats** *(Updated August 17, 2011)*

#### **Federal Agency Assistance and Consultation**

Section 7(c) of the Endangered Species Act directs the U.S. Fish and Wildlife Service to consult with federal agencies on any proposed actions (direct or indirect) on federal lands that may potentially affect listed, proposed or candidate species or their habitat.

It is the responsibility of federal "action agencies" (or their designated representatives) to obtain an official table ("Species List") of listed, proposed and candidate species that may be present where the proposed activity is to occur. If the project potentially affects the species or its habitat, the federal agency is required to consult with the Service.

To assist agencies with this task, the Service prepares and regularly updates Species Lists by county. The lists are valid for up to 180 days. Species List areas may be larger than the footprint of the proposed activity. Status changes, such as listings, delistings or critical habitat designations, will be updated immediately by the Service so the action agency will always have access to the most current information for project planning.

For comprehensive information specific to federal agency assistance and consultation, go to: <http://www.fws.gov/idaho/agencies.htm>

#### **Obtaining Species Lists for Proposed Federal Actions**

The Fish and Wildlife Service is developing a web-based system that will allow Action Agencies to generate project-specific Species Lists. We will provide instructions when the new web-based species list system is launched.

Until then, please obtain an official "T&E Species List" directly from the Service's Idaho FWS website, which is organized by county for your proposed activity consultation.

This list will ensure that your project records contain the most current species information. Please print and retain a copy of this list with your project records. Should your project plans expand or change to include additional counties, you will need to check the website for an updated list, and reprint a new species list for your files.

To obtain the most current County Species List (PDF file for download), click on the link under "Obtaining an Official T&E Species List for Proposed Federal Actions" - [www.fws.gov/idaho/species/IdahoSpeciesList.pdf](http://www.fws.gov/idaho/species/IdahoSpeciesList.pdf).

Before initiating an action, a federal action agency (or their designated representative) that is planning an activity must obtain a list of species that may be present in the proposed project area. (Please note that the area for which this list is being generated may encompass a larger area than the footprint of the construction.) The area includes any effects of the action (direct and indirect) that may potentially affect species or habitats.

This species/county table meets the Fish and Wildlife Services' regulatory obligation under Section 7(c) of the Endangered Species Act (Act) to provide federal agencies with a species list. Please print and retain a copy of this table and this information sheet with your project records.

Use this information to verify the habitats and/or species present in the area affected by the projects you are developing. Any project-specific species list generated from this table is valid for up to 180 days. Because the information in this table may change without notice, you are advised to visit our website frequently.

When you submit a request for Section 7 Consultation, please include a copy of your downloaded Species List marked with the date that it was downloaded. This will document your compliance with 50 CFR 402.12(c).

If the area affected by the proposed project extends beyond the boundary of the State of Idaho, please contact the appropriate U.S. Fish and Wildlife Service office listed below to obtain a Species List for their area of jurisdiction.

#### **U.S. Fish and Wildlife Service Contacts**

Idaho – Bob Kibler, [bob\\_kibler@fws.gov](mailto:bob_kibler@fws.gov) (208) 378-5255  
Montana – Montana Ecological Services Field Office (406) 449-5225  
Nevada – Nevada Fish & Wildlife Office (775) 861-6300  
Oregon – La Grande Field Office (541) 962-8584  
Utah – Utah Ecological Service Field Office (801) 975-3330  
Washington – Spokane Field Office (509) 891-6839  
Wyoming – Wyoming Ecological Services Field Office (307) 772-2374

#### **Candidate Species Conservation**

Though candidate species have no protection under the Act, they are included in the table for early planning consideration. Candidate species could be proposed or listed during the project planning period. The Service advises you to evaluate potential effects to candidate species that may occur in the project area. Should the species be listed, this may expedite section 7 consultation under the Act.

#### **NOAA Fisheries Species**

Listed or proposed species that are under National Marine Fisheries Service's (NOAA Fisheries) jurisdiction do NOT appear on the Service's Species Lists. In Idaho, please contact NOAA Fisheries at (208) 378-5696 or visit NOAA Fisheries' webpage at <http://www.nwr.noaa.gov/Species-Lists.cfm> for consultation information.

Rev 5/10/11  
IFWO

Grouping	Amphibian	Bird	
	Columbia spotted frog - Great Basin population	Greater Sage-Grouse	Yellow-billed cuckoo
Scientific Name	<i>Rana luteiventris</i>	<i>Centrocercus urophasianus</i>	<i>Coccyzus americanus</i>
Status	[C]	[C]	[C]
Ada		x	x
Adams		x	
Bannock		x	x
Bear Lake		x	
Benewah			
Bingham		x	x
Blaine		x	x
Boise			x
Bonner			
Bonneville		x	x
Boundary			
Butte		x	
Camas		x	
Canyon			x
Caribou		x	
Cassia		x	x
Clark		x	x
Clearwater			
Custer		x	x
Elmore		x	x
Franklin		x	
Fremont		x	x
Gem		x	
Gooding		x	
Idaho			x
Jefferson		x	x
Jerome		x	
Kootenai			x
Latah			x
Lemhi		x	x
Lewis			x
Lincoln		x	
Madison		x	x
Minidoka		x	x
Nez Perce			
Oneida		x	
Owyhee	x	x	x
Payette		x	
Power		x	
Shoshone			
Teton			
Twin Falls	x	x	x
Valley			
Washington		x	

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat

Grouping	Mammal				
	Canada lynx		Grizzly bear	Northern Idaho ground squirrel	Selkirk Mountain caribou
Common Name					
Scientific Name	<i>Lynx canadensis</i>		<i>Ursus arctos horribilis</i>	<i>Spermophilus brunneus brunneus</i>	<i>Rangifer tarandus caribou</i>
Status	[T]	[CH]	[T]	[T]	[E]
Ada					
Adams	x			x	
Bannock					
Bear Lake	x				
Benevah	x				
Bingham					
Blaine	x				
Boise	x				
Bonner	x		x		x
Bonneville	x		x		
Boundary	x	x	x		x
Butte	x				
Camas	x				
Canyon					
Caribou	x				
Cassia					
Clark	x		x		
Clearwater	x				
Custer	x				
Elmore	x				
Franklin	x				
Fremont	x		x		
Gem					
Gooding					
Idaho	x				
Jefferson	x				
Jerome					
Kootenai	x				
Latah	x				
Lemhi	x				
Lewis					
Lincoln					
Madison	x				
Minidoka					
Nez Perce	x				
Oneida					
Owyhee					
Payette					
Power					
Shoshone	x				
Teton	x		x		
Twin Falls					
Valley	x			x	
Washington				x	

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat

Grouping	Mammal	
Common Name	Southern Idaho ground squirrel	Wolverine
Scientific Name	<i>Spermophilus brunneus enemicus</i>	<i>Gulo gulo</i>
Status	[C]	[C]
Ada		x
Adams	x	x
Bannock		x
Bear Lake		x
Benewah		x
Bingham		x
Blaine		x
Boise		x
Bonner		x
Bonneville		x
Boundary		x
Butte		x
Camas		x
Canyon		x
Caribou		x
Cassia		
Clark		x
Clearwater		x
Custer		x
Elmore		x
Franklin		x
Fremont		x
Gem	x	x
Gooding		x
Idaho		x
Jefferson		x
Jerome		
Kootenai		x
Latah		x
Lemhi		x
Lewis		x
Lincoln		x
Madison		x
Minidoka		
Nez Perce		x
Oneida		
Owyhee		
Payette	x	
Power		
Shoshone		x
Teton		x
Twin Falls		x
Valley		x
Washington	x	x

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat

Grouping	Fish				Mollusk			
	Bull trout		Kootenai River white sturgeon		Banbury Springs lanx	Bliss Rapids snail	Bruneau hot springsnail	Snake River physa snail
Common Name								
Scientific Name	<i>Salvelinus confluentus</i>		<i>Acipenser transmontanus</i>		<i>Lanx sp.</i>	<i>Talorconcha serpenticola</i>	<i>Pyrgolopsis bruneauensis</i>	<i>Haitia (Physa) natricinia</i>
Status	[T]	[CH]	[E]	[CH]	[E]	[T]	[E]	[E]
Ada	x							x
Adams	x	x						
Bannock								
Bear Lake								
Benewah	x	x						
Bingham								
Blaine	x	x						
Boise	x	x						
Bonner	x	x						
Bonneville								
Boundary	x	x	x	x				
Butte	x	x						
Camas	x	x						
Canyon								x
Caribou								
Cassia								x
Clark								
Clearwater	x	x						
Custer	x	x						
Elmore	x	x				x		x
Franklin								
Fremont								
Gem	x	x						
Gooding					x	x		x
Idaho	x	x						
Jefferson								
Jerome						x		x
Kootenai	x	x						
Latah								
Lemhi	x	x						
Lewis	x	x						
Lincoln								
Madison								
Minidoka								x
Nez Perce	x	x						
Oneida								
Owyhee	x	x					x	x
Payette	x							x
Power								
Shoshone	x	x						
Teton								
Twin Falls					x	x		x
Valley	x	x						
Washington	x	x						x

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat

Grouping	Plant					
	Christ's paintbrush	Goose Creek milkvetch	Macfarlane's four-o'clock	Packard's Milkvetch	Slickspot peppergrass	
Common Name						
Scientific Name	<i>Castilleja christii</i>	<i>Astragalus anserrinus</i>	<i>Mirabilis macfarlanei</i>	<i>Astragalus cusickii</i> var. <i>parkardiae</i>	<i>Lepidium papilliferum</i>	
Status	[C]	[C]	[T]	[C]	[T]	[PCH]
Ada					X	X
Adams						
Bannock						
Bear Lake						
Benewah						
Bingham						
Blaine						
Boise						
Bonner						
Bonneville						
Boundary						
Butte						
Camas						
Canyon					X	X
Caribou						
Cassia	X	X				
Clark						
Clearwater						
Custer						
Elmore					X	X
Franklin						
Fremont						
Gem					X	X
Gooding						
Idaho			X			
Jefferson						
Jerome						
Kootenai						
Latah						
Lemhi						
Lewis						
Lincoln						
Madison						
Minidoka						
Nez Perce						
Oneida						
Owyhee					X	X
Payette				X	X	X
Power						
Shoshone						
Teton						
Twin Falls						
Valley						
Washington						

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat

Grouping	Plant			
	Spalding's catchfly	Ute ladies'-tresses	Water Howellia	Whitebark Pine
Common Name				
Scientific Name	<i>Silene spaldingii</i>	<i>Spiranthese diluvialis</i>	<i>Howellia aquatilis</i>	<i>Pinus albicaulis</i>
Status	[T]	[T]	[T]	[C]
Ada				
Adams				x
Bannock				
Bear Lake				x
Benewah	x		x	
Bingham		x		
Blaine				x
Boise				x
Bonner				x
Bonneville		x		x
Boundary				x
Butte				x
Camas				x
Canyon				
Caribou				x
Cassia				
Clark				x
Clearwater				x
Custer				x
Elmore				x
Franklin				
Fremont		x		x
Gem				x
Gooding				
Idaho	x			x
Jefferson		x		
Jerome				
Kootenai	x		x	
Latah	x		x	
Lemhi				
Lewis	x			
Lincoln				
Madison		x		
Minidoka				
Nez Perce	x			
Oneida				
Owyhee				
Payette				
Power				
Shoshone	x		x	x
Teton				x
Twin Falls				
Valley				x
Washington				x

[C] Candidate  
[P] Proposed

[T] Threatened  
[E] Endangered

[CH] Designated Critical Habitat  
[PCH] Proposed Critical Habitat



# STATE OF IDAHO



C. L. "BUTCH" OTTER  
GOVERNOR  
CELIA R. GOULD  
DIRECTOR

February 22, 2012

Heather Calkins  
TD & H Engineering  
2517 17<sup>th</sup> Street  
Lewiston, ID 83501

Dear Ms. Calkins:

Thank you for inquiring with the Idaho State Department of Agriculture (ISDA) with regards to your work with the Clearwater Water District Water System Improvement Project. The public works project being proposed will be an important project for the citizens of that area.

We have reviewed the planning documents provided to us. Your documents appear to be professional and informative. At this time we do not have comments or questions related to this project.

Thank you for contacting our agency. Feel free to contact us in the future (main number - 208-332-8500, my number - 208-332-8597).

Sincerely,

Gary Bahr

Water Quality Programs

PC: Water Program File

THOMAS, DEAN & HOSKING, INC.  
 DATE: 2/24/12  
 REVIEWED BY: GRC  
 PROJECT NO. LI-017  
 FOLDER     BINDER     FLAT FILE  
 FUND \_\_\_\_\_  
 REFERENCE \_\_\_\_\_  
 PRODUCT INFO. \_\_\_\_\_

<input type="checkbox"/> 1. PROJECT MGMT.	<input type="checkbox"/> 9. MFG. NOTES
<input type="checkbox"/> 2. CORRESPONDENCE	<input type="checkbox"/> 10. COST ESTIMATES
<input type="checkbox"/> 3. DESIGN INVP	<input type="checkbox"/> 11. CONTRACT DECISION
<input type="checkbox"/> 4. FIELD SURVEY	<input type="checkbox"/> 12. CONSTRUCTION REPORTS
<input type="checkbox"/> 5. PHOTO LOGS	<input type="checkbox"/> 13. INSP./TESTING
<input type="checkbox"/> 6. REPORTS/STUDIES	<input type="checkbox"/> 14. GRANT/LOAN
<input type="checkbox"/> 7. SCHEDULES	<input type="checkbox"/> 15. ENVIRONMENTAL
<input type="checkbox"/> 8. PRO-W/PERMITS	<input type="checkbox"/> 16. SPEC./MANUALS

## Appendix E – Archeological and Historical Survey



June 30, 2012

Heather Calkins  
TD&H Engineering  
2517 17th Street, Suite B  
Lewiston, ID 83501

Dear Heather,

Thank you again for the opportunity to work with TD&H Engineering and the Clearwater Water District to identify and hopefully protect historic properties important to the Nez Perce Tribe and the non-Indian community. I am sending you the completed report, *Clearwater Water District Phase I Cultural Resource Survey*, Nez Perce Tribe Cultural Resource Program Report No. 12-NPT-17, and the historic structure record for the Clearwater Water System, Field No. 12-NPT-17.1. Both documents should be submitted to the Idaho Department of Environmental Quality, and State Historic Preservation Office after the agency makes a determination of effect of the undertaking on historic properties.

I conducted an intensive pedestrian survey for just over half of the existing water system, with the understanding that the new proposed lines should be installed within 10 feet of current lines. Unfortunately, the Clearwater Water District did not obtain access permission for all segments, and other segments were in hay, so were not surveyed to avoid affecting the imminent harvest. The remaining segments, along with any newly identified routes, should all be surveyed after final project plans are completed. This survey should also be timed for fall or early spring, before vegetation growth obscures all the routes.

Four previously identified historic properties are located in the immediate project area. Three of the previously identified sites, Clearwater Odd Fellows Hall, Elk City Wagon Road, and Southern Nez Perce Trail are eligible for Listing on the National Register of Historic Places (NRHP). However, the project as described is unlikely to affect these resources. I also documented portions of the historic Clearwater Water System (Field No. 12-NPT-17.1) within the project area. It is my recommendation that this resource does not meet any of the NRHP Criteria, and therefore is not eligible for listing. However, I also recommend additional documentation of any elements over 50 years old that may be removed or replaced when plans for the water system upgrade are finalized.

Contact me at 208-621-3851 or [keithb@nezperce.org](mailto:keithb@nezperce.org) if you have any questions or concerns.

Sincerely,

Patrick Baird, Tribal Archaeologist



ARCHAEOLOGICAL AND HISTORICAL SURVEY REPORT  
ARCHAEOLOGICAL SURVEY OF IDAHO

**A. KEY INFORMATION**

1. **Project name:** Clearwater Water District Phase I Cultural Resource Survey
2. **Report number or associated federal project number (if appropriate):** 12-NPT-17
3. **Agency name (if 106-related):** Idaho Dept. of Environmental Quality
4. **Report author (and principal investigator if different):** Patrick Baird
5. **Date:** June 29, 2012
6. **County:** Idaho
7. **Township, range, section** (each township and associated sections listed separately):  
T31N, R4E, Section 11  
T31N, R4E, SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 12  
T31N, R4E, Section 13  
T31N, R4E, SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 24  
T31N, R5E, Section 18  
T31N, R5E, Section 19  
T31N, R5E, Section 30
8. **Acres Surveyed:** 33 acres intensive (30-meter or less transect interval)  
0 acres reconnaissance (greater than 30-meter transect interval, intuitive, or statistical sample)

**B. PROJECT DESCRIPTION**

**1. Description of project and potential direct and indirect impacts to known or suspected historic properties:**

TD & H Engineering, on behalf of the Clearwater Water District in Clearwater, Idaho, requested the assistance of the Nez Perce Tribe Cultural Resource Program (CRP) to conduct a Phase I cultural resource inventory work for the Clearwater Water District Water System Improvement Project. The current undertaking is a facility-planning document to identify and make necessary improvements to their drinking water system. The facility plan for this project is partially funded by an Idaho Department of Environmental Quality (DEQ) planning grant, which requires compliance with the Idaho DEQ State Environmental Review Process that mirrors that of the National Environmental Policy Act.

The proposed project consists of drilling new ground water wells and constructing a new, small diameter distribution system to supply domestic only water to the District. The new water distribution system will be constructed alongside the existing distribution system. The District will continue to utilize their current surface water source and existing distribution system, but for non-domestic (irrigation/livestock) purposes only. The water supply for both the domestic and non-domestic systems will be from Wall Creek, the District's current surface water source.

In the event that ground water wells are not adequate to supply the District with the required quantity and/or quality of domestic water, the District will make improvements to their existing treatment plant. This alternate project would consist of installing a new membrane filter system at their existing treatment plan for treatment of domestic water only.

**2. Description of Area of Potential Effects (APE) with reference to attached map:**

The APE is defined as the right-of-way of the existing water system, as well as the three proposed well locations. The final route of the proposed water lines has not been defined, though the lines should fall within 10 feet of the existing lines. Related impact areas such as staging and access routes will need to be addressed when the engineering plans are complete.

**3. Project acres:** ca. 50 acres

**4. Owner(s) of land in project area: (Key to map.)**

All project lands are private, though the Clearwater Water District has right-of-way easements for the existing pipeline routes.

**C. STATEMENT OF OBJECTIVES FOR SURVEY**

The cultural resource inventory was designed to identify archaeological and historic properties within the project area. This area is the existing pipeline route, and three proposed well locations.

There is a high probability of cultural resources within the project area because of the long history of Nez Perce use of the area, as well as historic euroamerican settlement and development. Clearwater is located on the Southern Nez Perce Trail, an Precontact trail connecting the Clearwater Valley to Buffalo Country in Montana. A portion of the Southern Nez Perce Trail was included in the Elk City Wagon Road in 1894. Euroamerican settlement around Clearwater started in the 1860s, and the existing water system was constructed in 1948.

**D. LOCATION AND GENERAL ENVIRONMENTAL SETTING**

**1. USGS topographic map(s):**

Big Cedar, ID [1969], Harpster, ID [1965], and Stites, ID [1968]

**2. Setting:**

The Columbia Plateau is a unique patchwork of 10 different physiographic sub-regions uncommon on the west coast of North America. These areas vary from mountain ranges, such as the Cascade and the Rocky Mountains, to Basin and Range (Walker 1998:29). Within these physiographic ranges, major river systems fed by thousands of smaller tributaries move large amounts of water westward to the Pacific Ocean.

Stretching across North Central Idaho, the Clearwater River flows from the confluence of the Lochsa and Selway Rivers near the Bitterroot Mountains, to Lewiston, Idaho, where it joins the Snake River. For 15

million years, the Clearwater has coursed through the Columbia Plateau, carving wide canyons and spreading out into several distinct forks that make up nearly 10,000 square miles of drainage. It is here, along the Clearwater River and its drainages, in the heart of the traditional Nez Perce country that Precontact occupations have been documented by numerous archaeological studies (Alt and Hyndman 1989:131).

Over 60 million years ago, the Clearwater River region began its massive configuration of its various landmarks. During the next 50 million years, the Plateau began a period of great change, events such as massive floods of viscous basalt and great rivers continually altered the region's landscape. About 10 million years ago, the surrounding foothills and mountain ranges began to take shape. Eventually the area began to cool enough to form glaciers to the north. Later, in the Holocene epoch (10,000 B.P.), as the earth's climate began to warm, much of the modern environment began to develop; forests began to mature, replacing one species for another. As the Plateau's landscape continued to oscillate through its warming and cooling, it would have teemed with wildlife well adapted to their ecosystems.

The project area is located on a plateau dissected by small tributaries of the South Fork Clearwater River, 4 miles west of Clearwater. The plateau grades eastward into the lower parts of the northern Rocky Mountains (Webb, Preece, Mueller, and Stevens 1971:1). Small creeks cut canyons from east to west towards the South Fork Clearwater River. Elevation in the project area varies from 3120 ft to 2440 ft msl.

The area is dominated by Kooskia silt loam soils, with small areas of Gwin-Melhorn stony loams, Jackknife silt loam, Klicker rocky silt loam, and Yakus coarse sandy loam. The Kooskia series consists of very deep and deep, moderately well drained, nearly level to hilly soils. These soils formed partly in wind-laid silty material and partly in material weathered from basalt and other kinds of rock (Webb, Preece, Mueller, and Stevens 1971:23).

## Fauna

The Clearwater River region supports a number of small mammals such as bobcat (*L. rufus*), coyote (*Canis latrans*), mountain lion (*Felis concolor*), beaver (*Castor canadensis*), muskrat (*Ondatra zibethicus*), gray wolf (*Canis lupus*), and wolverine (*Gulo luscus*). Common large mammals include elk (*Cervus elaphus*), white-tailed deer (*Odocoileus hermionus*), moose (*Alces alces*), mountain sheep (*Ovis canadensis*), mountain goat (*Oreamnos americanus*), and mule deer (*Odocoileus hemionus*) (Walker 1998:39-40). Over 300 different species of bird appear in the Plateau Region at various seasons. Some of the birds seen year-round in the Clearwater Region include the European starling (*Sturnus vulgaris*), red-winged blackbird (*Agelaius phoeniceus*), Brewer's blackbird (*Euphagus cyanocephalus*), American crow (*Corvus brachyrhynchos*), hairy woodpecker (*Picoides villosus*), downy Woodpecker (*Picoides pubescens*), black-billed magpie (*Pica hudsonia*), California quail (*Callipepla californica*), American robin (*Turdus migratorius*), golden eagle (*Aquila chrysaetos*), bald eagle (*Haliaeetus leucocephalus*), ring-necked pheasant (*Phasianus colchicus*), red-tailed hawk (*Buteo jamaicensis*), blue grouse (*Dendragapus obscurus*), northern flicker (*Colaptes auratus*), common raven (*Corvus corax*), Cassin's finch (*Carpodacus cassinii*), osprey (*Pandion haliaetus*), and mountain bluebird (*Sialia currucoides*) (Tekiela 2003).

## Flora

The Clearwater River drainage contains a diversity of both Northern Rocky Mountain and Pacific Coast plant species. The most common low elevation trees include ponderosa pine (*Pinus ponderosa*), lodge pole pine (*Pinus contorta*), western white pine (*Pinus monticola*), western hemlock (*Tsuga heterophylla*), subalpine fir (*Abies lasiocarpa*), common ash (*Sorbus scopulina*), cottonwood (*Populus trichocarpa*), and willow (*Salix sp.*) (Kershaw, Mackinnon, and Pojar 1998). Some of the more common plants are common blackberry (*Rubus allegheniensis*), common snowberry (*Symphoricarpos albus*), and thimbleberry (*Rubus parviflorus*) (Kershaw, MacKinnon and Pojar 1998).

The project area is dominated by dispersed home sites and agricultural land. The only concentrated development is 1/3 mile of homes and structures along Main Street in Clearwater. Historically, the dominate crops in the area were small grains, peas, lentils, alfalfa, clover, and grasses (Webb, Preece, Mueller, and Stevens 1971:25). The author observed cattle ranching and hay and grass cultivation during the field survey.

## E. PRE-FIELD RESEARCH

### 1. Sources of information checked:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Overviews                        | <input type="checkbox"/> Historical records/maps (list)                   |
| <input checked="" type="checkbox"/> National Register                | None  |
| <input checked="" type="checkbox"/> Archaeological site records/maps | <input type="checkbox"/> Individuals/groups with special knowledge (list) |
| <input checked="" type="checkbox"/> Architectural site records/maps  |   |
| <input type="checkbox"/> Survey records                              | <input checked="" type="checkbox"/> Other (list) BLM Plat maps            |
| <input checked="" type="checkbox"/> Ethnographic studies             |   |

### 2. Summary of previous studies in the general area:

#### Cultural Setting

The project area is located within the ancestral territory of the Nez Perce Tribe, the *Nimípuu* or “real people” (Slickpoo and Walker 1973:1). Nez Perce Country covers some 27,000 miles and includes all of north-central Idaho as far east as the Bitterroot Divide, and adjacent parts of southeastern Washington and northeastern Oregon (Chalfant 1974; Curtis 1911; Marshall 1977; Schwede 1966; Slickpoo and Walker 1973; Spinden 1908; Walker 1998).

Over 300 aboriginal Nez Perce settlements have been identified through historic records, archaeological work, and ethnographic interviews (Schwede 1966; Shawley 1984; Walker 1998). Sites generally can be designated as villages when they are found at elevations below 457 meters (1500 feet) and where intermediate sized streams meet larger ones, especially at locations where fish and roots were immediately available. Camps were usually established near small streams in mountainous areas at the heads of larger tributaries where game and fish were available (Schwede 1966:9-16).

The Nez Perce language belongs to the Sahaptian language family (Rigsby 1965:24). The Nez Perce are divided into Upper and Lower divisions based on dialect differences (Walker 1998:420). Estimates of early historic Nez Perce population vary from 4000 to 6000 individuals (Spinden 1908:175; Swanton 1952:402). Group size ranged from 30 to 200 individuals, depending on the season and type of social grouping (Walker 1998:420). Although several other Native American groups visited the Clearwater River drainage, the Nez Perce are the only known residents of this region (Sappington 1994:67).

The Clearwater Region has been investigated archaeologically since the early 1960s. These studies show that the Clearwater River drainage has been continually occupied by humans for well over 10,000 years and the area has long been associated with the Nez Perce Tribe. Sappington defined the cultural sequence for the Clearwater River region in 1994 and most researchers have employed it since. The earliest human occupation of the Clearwater Region began with the Windust phase (ca. 10,000-6,000 B.P.). This early phase represent a time during which bands of mobile foragers occupied the region. The Hatwai phase (ca. 6,000-3,000 B.P.) represented a shift to a more sedentary way of life, as evidenced by the first pit houses and an intensification of the use of fish and camas (*Camassia quamash*). During the Ahsahka phase (ca. 3,000-500 B.P.), pit house villages became more widespread. The Kooskia phase (ca. 500-200 B.P.) represents similar patterns as mentioned above with the addition of Euroamerican trade goods and the introduction of European diseases.

The historic period began with the arrival of the Corps of Discovery in 1805, in search of the quickest route to the Pacific Ocean. Fur traders, miners, and missionaries began to flood the area soon after (Sappington 1994). The Nez Perce Tribe ceded much of their homeland in the Treaty with the Nez Percés, of 1855, but reserved approximately 7 million acres for their exclusive use. The discovery of gold on the reservation resulted in the signing of the controversial Treaty with the Nez Percés, of 1863, which reduced the size of the reservation by 90 percent, and left the Clearwater area just outside the new Reservation boundary.

The 1887 Dawes Act directed the Bureau of Indian Affairs to divide reservations into individual parcels for each tribal member. The size of the parcels depended on the status and age of the individual. Any remaining lands were to be open for homesteading. The Dawes Act, also known as the Allotment Act, attempted to force Native Americans to abandon traditional lifestyles and adopt Euroamerican practices, such as farming. The Nez Perce Indian Reservation was allotted in 1893 and 1894 under the direction of Alice Fletcher, an anthropologist from the Peabody Museum at Harvard University. Under Fletcher, the Nez Perce were assigned allotments of 160 acres for each head of family, 60 acres for each single person over eighteen, 80 acres for orphans, and every person under eighteen and single was to be given forty acres. On the Nez Perce Indian Reservation, allotment and subsequent euroamerican homesteading reduced Indian controlled lands by another 90 percent. Of the 140 million acres originally designated to be Indian lands, only 50 million remained in Indian ownership by 1934.

The Nez Perce Tribe took advantage of the reforms made in the Indian Reorganization Act of 1934. This act allowed tribes to establish self-government. In 1941, the Nez Perce Tribe adopted the current Tribal Constitution, establishing a nine member Tribal Executive Committee elected by enrolled tribal members. The tribe also holds a General Council twice each year to have direct input from and to tribal member. Over the past 40 years, the tribe has taken many steps to reassert authority over tribal lands on the

reservation and tribal sovereignty for guaranteed treaty rights within lands ceded in the 1855 and 1863 treaties, as well as usual and accustomed fishing, hunting, and gathering areas outside the ceded territory.

Today the Nez Perce tribe plays a crucial role in the management and the preservation of its cultural and natural resources, the operation of health and judicial systems, and economic development within the reservation boundaries.

Euroamerican settlement near Clearwater started in the 1860s, though the area was not platted until 1872, with the first identified homestead claim in the immediate project area filed by Henry H. White on 10/1/1880. Homesteaders claimed most of the surrounding lands in the late 1880s through 1910 (BLM 2012). The community was originally called Independence Flat, and was later renamed Clearwater. The early community supported a store, church, blacksmith shops, and a lumber mill. The timber industry dominated the local economy until the 1990s. The local mill in Clearwater closed around 1950 (Vinyl Hardin, personal communication 2012).

The Southern Nez Perce Trail followed Rabbit and Sally Ann Creeks to Clearwater, connecting the South Fork Clearwater River to the Middle Fork Salmon River and Buffalo Country in Montana (Shawley 1977:66). In 1894-1895, the Elk City Wagon Road from Harpster to Elk City was built following the route of the Southern Nez Perce Trail, and in many locations was built in the existing footprint (USFS n.d.).

Allen Slickpoo, Sr., (1995) identified Clearwater as the first stop on the Southern Nez Perce Trail. The stop was known as “*Tekexpe* (Ta-kehk-pa), which in the later years became a popular place, because of the establishment of a small village store, named "Clearwater." Here, the *Nimípuu* would trade their handmade buckskin gloves, moccasins and other items for camping provisions, including flour, salt, sugar, bacon, eggs, etc.”

### **Background Research**

The author contacted the Idaho State Historical Society on June 19, 2012, to identify previous cultural resource surveys within 0.5 miles of the project area (SHPO Record Search #12284). Background research is typically done in a 1.0 mile area around the project. Because this is a linear project, a 0.5 mile buffer was deemed sufficient. The author also conducted record searches with the Nez Perce THPO, the NRHP online database, and Government Land Office (GLO) Plat Maps through the Bureau of Land Management (BLM) website.

Six previous cultural resource studies are documented within the 0.5 mile search area, and are listed below (Table 1). The SHPO record search identified 3 historic sites (Table 2). The THPO record search identified 1 site.

**Table 1** Previous cultural resource surveys within 0.5 miles of the project area.

Report No.	Title	Author	Year	Agency Name	Agency Project No.	Intensive Acres	Recon Acres
1989/199 2	Annual Report of Archeological Investigations. Idaho Transportation Dept., Boise, March, 1982.	Gaston, Jenna	1982	Idaho Transportation Dept.		0	0
1989/199 3	Annual Report of Archeological Investigations. Idaho Transportation Dept., Boise, January 1983.	Gaston, Jenna	1983	Idaho Transportation Dept.		0	0
1989/199 4	Annual Report of Archaeological Investigations, 1983. Idaho Transportation Dept. Boise, Idaho, January 1984.	Gaston, Jenna	1984	Idaho Transportation Dept.		0	0
1992/151	Wall Creek Watershed. Nez Perce National Forest.	Huntley, James G.	1991	Nez Perce National Forest	91-NZ-4-4	12	0
1994/108 3	State Sears-Wall Timber Sale Access Special Use Permit. Nez Perce N.F.	Baldwin, S.	1994	Nez Perce National Forest.	94-NZ-4-4	1	0
2007/670	Blacktail Fuels Reduction. Nez Perce N.F.	Schacher, C., Lucas, S.	2007	Nez Perce National Forest.	06-NZ-27	1641	

**3. Description and evaluation of projects in E.2 with regard to survey design, methods, personnel, and results:**

Time constraints for this survey did not permit the author to review the reports, but none appeared to be critical to the early project planning currently proposed. Three of the projects are reported in Idaho Transportation Department Annual Reports to the SHPO, indicating that they were determined by the agency to have no effect on historic properties. The other three reports were prepared by Nez Perce National Forest staff, and the current undertaking is on private lands, not within the National Forest. Nevertheless, all six reports should be reviewed after the final pipeline routes are selected.

**F. EXPECTED HISTORIC AND PREHISTORIC LAND USE AND SITE SENSITIVITY**

**1. Are cultural properties known in this area? [ ] No [X] Yes (List site numbers and provide brief description of cultural theme represented by known cultural properties. Key to map.)**

**Table 2** Previously recorded historic properties within 0.5 miles of the project area.

IHSI No.	UTM Zone	Easting	Northing	Property Name	Street
49-896	11	585822	5097205	Clearwater Odd Fellows Hall	
49-1811	11	585822	5097205	Clearwater town site	
49-17909/ 10IH674	11	585950	5095675	Elk City Wagon Road	Beginning approx. 0.25 mi. S of Clearwater; ending at Elk City
10IH883				Southern Nez Perce Trail	Beginning at Stites, ending in MT

**2. Are cultural properties expected?  Yes  No (Why?)**

The Southern Nez Perce Trail and Elk City Wagon Road pass through the project area. The area has also seen 150 years of non-Indian homesteading, agriculture, and development.

**3. What cultural themes/contexts are expected within the survey area? Check at least one theme in first two columns and at least one time period in the third column.**

<u>Theme</u>		<u>Time Period</u>
<input checked="" type="checkbox"/> Prehistoric Archaeology	<input type="checkbox"/> Military	<input checked="" type="checkbox"/> Prehistoric
<input checked="" type="checkbox"/> Agriculture	<input type="checkbox"/> Mining Industry	<input checked="" type="checkbox"/> Historic Native American
<input checked="" type="checkbox"/> Architecture	<input checked="" type="checkbox"/> Native Americans	<input type="checkbox"/> Exploration: 1805-1860
<input type="checkbox"/> Civilian Conserv. Corp.	<input checked="" type="checkbox"/> Politics/Government	<input checked="" type="checkbox"/> Settlement: 1855-1890
<input type="checkbox"/> Commerce	<input type="checkbox"/> Public Land Mngt/Conserv.	<input checked="" type="checkbox"/> Phase I Statehood: 1890-1904
<input type="checkbox"/> Communication	<input type="checkbox"/> Recreation/Tourism	<input checked="" type="checkbox"/> Phase II Statehood: 1904-1920
<input type="checkbox"/> Culture and Society	<input checked="" type="checkbox"/> Settlement	<input checked="" type="checkbox"/> Interwar: 1920-1940
<input type="checkbox"/> Ethnic Heritage	<input checked="" type="checkbox"/> Timber Industry	<input checked="" type="checkbox"/> Pre-Modern: 1940-1958
<input type="checkbox"/> Exploration/Fur Trapping	<input checked="" type="checkbox"/> Transportation	<input type="checkbox"/> Modern: 1958-present
<input type="checkbox"/> Industry	<input type="checkbox"/> Other (list)	

**4. Brief description of where cultural properties associated with expected themes might be found with respect to landforms, water, vegetation, slope, fauna, and historical documentation:**

Archaeological sites are expected along historic trails, and near springs and creeks. Historic structures are likely to be found along Main Street in Clearwater, historic homesteads, and the historic Clearwater Water District route.

SHPO records identify three documented historic sites in the project area. The Clearwater International Order of Odd Fellows (IOOF) Hall (49-896) is located on Main Street in Clearwater. The existing pipeline runs in front of the building. The Clearwater town site (49-1811) was established in the 1860s, and the first post office opened in 1872. The Elk City Wagon (or Stage) Road, between Harpster and Elk City, Idaho. The 50 mile long road was constructed in 1894-1895 along the route of the existing Southern Nez Perce Trail (USFS n.d.).

The Southern Nez Perce Trail, known as the *Wise'iskit* (camp trail) in the Nez Perce language, began at *Tuukupe'* (Too-koo-peh), or from the *Tuukpenwawam* (Took-pan-wa-wahm), the South Fork of the Clearwater River villages in the present towns of Stites-Kooskia areas, and went to the *Siminekemkuus* (The Three Forks) and on into the buffalo country and the Yellowstone territory.

The pipeline follows the Elk City Wagon Road through Clearwater, and crosses it at the south end of the project area. The pipeline crosses the Southern Nez Perce Trail in several locations.

**G. FIELD METHODS**

**1. Areas examined and type of coverage:**

The author conducted an intensive pedestrian survey of the identified pipeline route, using a single out-and-back transect between pipeline markers for a survey corridor 5 to 10 meters wide. Pipeline features were marked with t-posts with rectangular metal tags. The author successfully surveyed 6 pipeline segments totaling 6,583 meters (ca. 33 acres).

**2. Description of ground surface conditions:**

Ground visibility was very poor throughout the project area, characterized by tall grass, mowed lawns, and

pavement and gravel dominating the surface. The author examined all areas of exposed soils, as well as animal burrows for cultural materials. Overall, surface visibility was less than 5 percent.

**3. Areas not examined and reasons why: (Key to map.)**

The author was unable to survey 8 pipeline segments totaling 5674.45 meters (ca. 28 acres), because much of segments in agricultural fields and lesser or where landowner permissions were not obtained. See response in G 7.

**5. Names of personnel participating in the survey in the field: Patrick Baird, Nez Perce Tribe, and Tim Straw, Clearwater Water District**

**6. Dates of survey: June 22 and 25, 2012**

**7. Problems encountered: [ ] None**

Only 54 percent of the project area was intensively surveyed. Much of the pipeline runs through agricultural fields, and the precise routes through the fields is unknown at this time. Although the Clearwater Water District owns rights-of-way for the existing pipeline, the District also did not obtain access permissions from all landowners. Several landowners denied access through their fields because the survey might damage the hay crop.

**H. RESULTS**

**1. Listing of all cultural properties (including previously recorded) in this area: (Fully describe each on attached site forms and indicate precise location on attached USGS map.) [ ] None**

<u>Field No.</u>	<u>Site No.</u>	<u>Type of Property</u>	<u>Artifacts/Features</u>
Feature 1	12-NPT-17.1	Historic Structure	Reservoir
Feature 2	12-NPT-17.1	Historic Structure	Backwash Tank and adjacent concrete pad
Feature 3	12-NPT-17.1	Historic Structure	Well
	49-896	Historic Building	Clearwater Odd Fellows Hall
	49-1811	Town site	Clearwater
	49-17909/ 10IH674	Historic Road/Trail	Elk City Wagon Road
	10IH883	Precontact Trail	Southern Nez Perce Trail

**2. Summary of important characteristics of properties listed above:**

Site 12-NPT-17.1 is the existing Clearwater Water System, owned and operated by the Clearwater Water District. The system extends 9 miles from an intake structure on Wall Creek to mains and distribution lines in Clearwater. The system was built in 1948 by community members, and financed by a FHA loan of \$20,000. Prior to construction of the water system, residents and farmers used wells, many of which were dug by hand and had poor water quality (Tim Straw, personal communication). The District refurbished the system in 1983. Surviving elements from 1948 include Feature 1, a reservoir, Feature 2, a small concrete pad and box adjacent to the Backwash Tank, the intake structure at Wall Creek, and portions of the mains and distribution lines. Notable 1983 additions include the Treatment Plant, Backwash Tank, and portions of the water main.

Feature 1 is a 40,000 gallon reservoir made of poured concrete and partially subterranean (Figure 3). The above ground structure measures 29 ft 6 inches by 21 ft 5 inches by approximately 9 ft high. A 3 ft square by 2 ft 6 inch tall concrete access shaft is located on the roof of the tank. A framed shed adjoins the southeast corner of the structure. The shed measures 8 ft 3 inches by 12 ft 3 inches, and measures approximately 9 ft tall at the highest point.

Feature 2 is a poured concrete foundation with a square box offset from the southeast corner (Figure 4). The slab is probably a storage tank dating to 1948. The slab measures approximately 7 ft square, with box measuring 3 ft x 3 ft x 3 ft high from the surface of the slab. The box has a concrete cover with “11-2-59” scratched into the top when the concrete was still wet. Both the box and the cover have rebar loop handles. A larger “Backwash Tank” was installed just east of the slab in 1983. The poured concrete Backwash Tank is partially subterranean, and measures 20 ft by 12 ft by approximately 4 ft high.

Feature 3 is a small historic well on the south side of Pleasant Valley Road (Figure 5). The visible portion of the well is a 2 ft 11 inches inch diameter concrete pipe. The well is filled with water, and partially covered by 2x6 inch boards. The age of the well is unknown, but it was likely abandoned in 1948, when the water system was constructed.

Features 1, 2, and 3 appear to be in good condition.

Site 49-896, the Clearwater International Order of Odd Fellows (IOOF) Hall is in fair condition (Figure 6). The building form appears to be intact, though the windows and doors have been replaced, and the entire building covered with modern vertical siding. The undated SHPO site record describes the building as

*Tall, narrow and unpainted, this 2-story clapboard structure is still in use today. A gable roof is hidden by a false front which has a flat top with a raised center portion. Sculpted wooden supports hold up flat false eaves of facade. A full front porch on first floor is covered by a shed roof, which is held up by 4 square wooden pillars and is skirted by a wooden balustrade. Two double-hung sash windows on each floor face the front.*

Site 49-1811 is the Clearwater town site. The undated SHPO site record describes Clearwater as “An early mining and timber settlement. In 1900 the town had a population of about 90 which supported a general merchandise store, 8 hotel, a livery and feed stable and a post office. The post office was established February 27, 1872 with John T. Stillwood as postmaster.”

49-17909/ 10IH674, the Elk City Wagon Road has been extensively modified within the project area, being improved to a modern graded roadway. The road runs 53 miles from Harpster to Elk City, and was built in 1894-1895 along the route of the Southern Nez Perce Trail.

10IH883, the Southern Nez Perce Trail runs from the South Fork Clearwater River to Buffalo Country in Montana. Native Americans have used this Trail from time immemorial. The Trail has been identified through ethnographic data and informal surveys extending through the project area, but has only been formally documented further east near Elk City.

**3. Recommendations for National Register eligibility of each cultural property:** (Specify both appropriate National Register criteria and contexts listed in F. Justify on attached site forms.)

<u>Site No.</u>	<u>Eligibility</u>	<u>Criteria</u>	<u>Context</u>
12-NPT-17.1	Not Eligible	D	Politics/Government
49-896	Not Eligible	C	
49-1811	Not Eligible		
49-17909/ 10IH674/10IH883	Eligible	A, B, D	Transportation, Industry

**4. Recommendations for further investigations needed to evaluate cultural properties:**

The remaining routes for the Clearwater must be inventoried, and any original (1948) surviving elements documented. If background information on this system is available, it could add details about prominent community members, etc., involved in the project. Other historic structures along the pipeline route should not be affected by the undertaking, as the buried pipes will not impose upon their viewshed or other contributing elements.

**5. Cultural properties noted but not formally recorded: (Key to map.) [ ] None**

<u>Field No.</u>	<u>Description</u>	<u>Reason not Recorded</u>
None	Pleasant Valley School Site (1889-1953)	Outside of project footprint

**I. CONCLUSIONS AND RECOMMENDATIONS**

**1. Brief summary of relevance of cultural properties to contexts listed under F, discussing potential contributions to these contexts:**

The Clearwater Water System does not appear to be eligible for NRHP listing. Although most of the system is over 50 years old, it does not meet any of the 4 NRHP Criteria:

- A. associated with events that made a significant contribution to the broad patterns of our history;
- B. associated with the lives of persons significant in our past; or
- C. embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. have yielded, or may be likely to yield, information important in prehistory or history.

**2. Discussion of potential threats to the integrity of the cultural properties and recommendations for future investigations or protective actions:**

The Clearwater Water System could be severely affected if recommended changes in the system include removal and/or replacement of existing historic elements.

**3. For 106-related surveys, discussion of relationship of each cultural property to direct and indirect project impacts. Specifically state project's effect (no effect, no adverse effect, or adverse effect) upon each cultural property: [ ] No properties**

The current proposal indicates that the Clearwater Water System parts that are or become non-functional will be abandoned in place. This should result in a no adverse effect, as it would effectively preserve any NRHP eligible portions of the system. If abandonment in place is not feasible, thorough documentation of contributing elements should be completed and archived.

**4. For 106-related surveys, recommendations for additional information gathering or survey, avoidance measures, monitoring, mitigation, and future management: [ ] None**

As previously stated, a more thorough cultural resource inventory is strongly recommended when the precise route of the new pipelines and any related infrastructure is determined. The current survey included areas where the existing pipeline is known and well marked, but the author was unable to survey almost half the route. Although the undertaking is likely to have no effect or no adverse effect on historic properties, a final determination cannot be made until project details have been finalized.

If cultural resources are observed during any part of project implementation, work in the area of the find must stop immediately and the Idaho SHPO and Nez Perce Tribe notified so the find can be evaluated and any preservation or mitigation measures taken, as appropriate.

**J. ATTACHMENTS**

- 1. Appropriate forms attached for each site? Yes
- 2. Maps attached? Yes
- 3. Other attachments? (List) Yes –
  - i. Photographs
  - ii. ISHI form, temp no. 12-NPT-17.1

**K. REPOSITORY**

Nez Perce Tribe Cultural Resource Program, PO Box 365, Lapwai, ID 83540

**L. CERTIFICATION OF RESULTS**

I certify that this investigation was conducted and documented according to Secretary of Interior's Standards and guidelines and that the report is complete and accurate to the best of my knowledge.

\_\_\_\_\_  
Signature of Reporter

\_\_\_\_\_  
Date

## Citations

Alt, David and Donald W. Hyndman

1989 *Roadside Geology of Idaho*. Roadside Geology Series. Mountain Press Publishing, Missoula, Montana.

Bureau of Land Management (BLM)

2012 General Land Office Records. Accessed June 26, 2012. <http://www.glorerecords.blm.gov/>

Chalfant, Stuart A.

1974 Aboriginal Territory of the Nez Perce Indians. In *Nez Perce Indians*, edited by David Agee Horr, pp. 25-163. Garland Publishing, New York.

Curtis, Edward S.

1911 *The North American Indian*. Vol. 8. Plimpton Press, Norwood, Massachusetts.

Kershaw, Linda, Andy MacKinnon, and Jim Pojar

1998 *Plants of the Rocky Mountains*. Mountain Meadows Press Publishing, Missoula, Montana.

Marshall, Alan Gould

1977 *Nez Perce Social Groups: An Ecological Interpretation*. Ph.D. Dissertation, Washington State University, Pullman.

Rigsby, Bruce J.

1985 *Linguistic Relations in the Southern Plateau*. Ph.D. dissertation, University of Oregon, Eugene.

Sappington, Robert Lee

1994 *The Prehistory of the Clearwater River Region, North Central Idaho*. Alfred W. Bowers Laboratory of Anthropology Anthropological Research Manuscripts Series, No. 95. University of Idaho, Moscow.

Swanton, John R.

1952 *The Indian Tribes of North American*. Bureau of American Archaeology Bulletin 145. Smithsonian Institution, Washington, D.C.

Schwede, Madge L.

1966 *An Ecological Study of Nez Perce Settlement Patterns*. Master's thesis, Washington State University, Pullman.

Shawley, Steven

1977 [1984] *Nez Perce Trails*. University of Idaho Anthropological Research Manuscript Series, No. 44, Moscow.

Slickpoo, Allen P, Sr.

1995 Wise'isskit (Camping Trail). Manuscript, Nez Perce Tribe, Lapwai, Idaho.

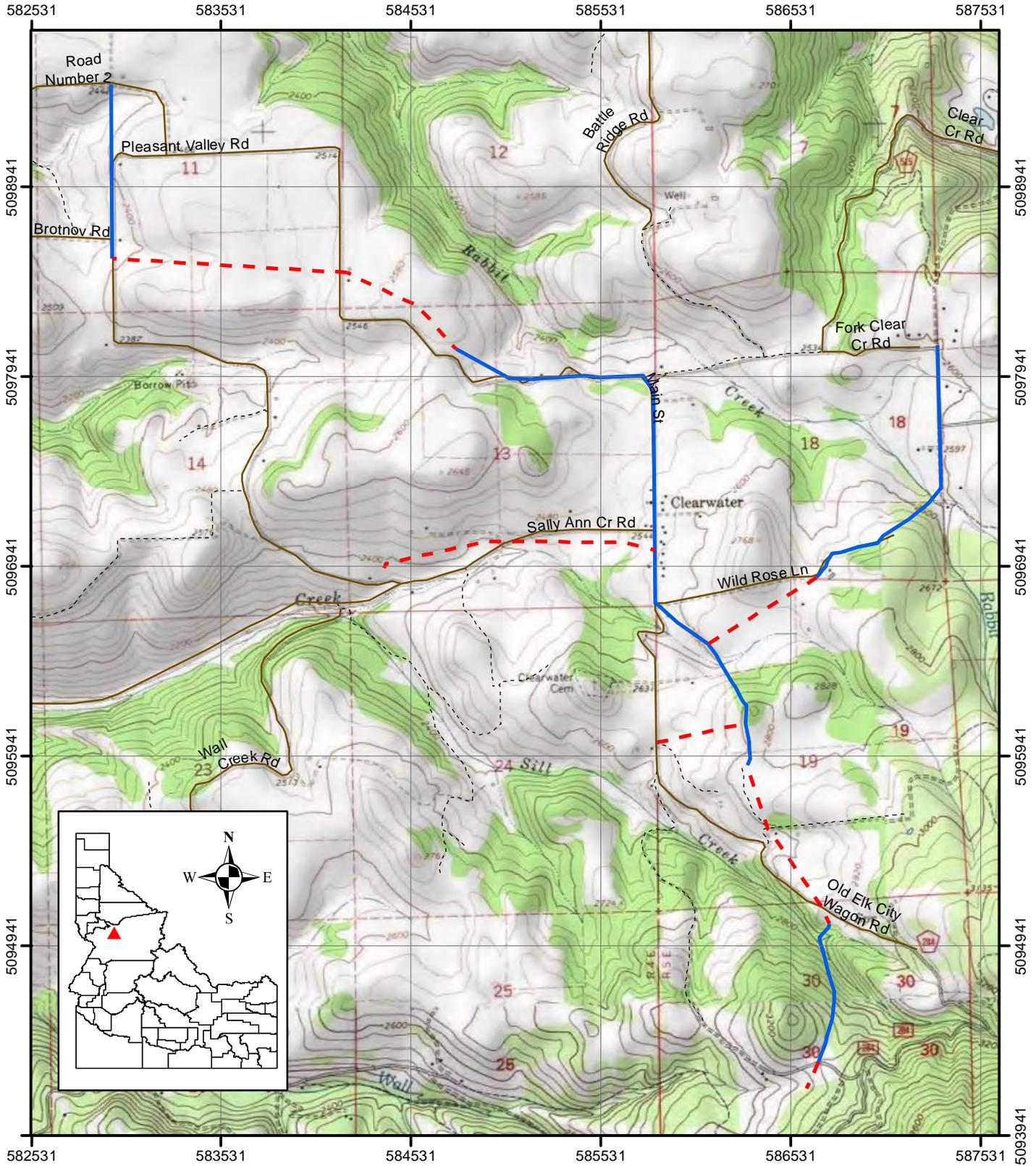
Slickpoo, Allen P., Sr. and Deward E. Walker, Jr.

1973 *Noon Nee-Me-Poo (We, The Nez Percés)*. Volume One. Nez Perce Tribe of Idaho, Lapwai.

# Clearwater, Idaho Waste System Improvement Project Survey Location 12-NPT-17

Map 1

## Nez Perce Tribe Cultural Resource Program



USGS 7.5' Quadrangle  
Stites, ID [1968]  
Big Cedarm ID [1969]  
Harpster, ID [1965]  
Corral Hill, ID [1965]  
Idaho NAIP 1 meter  
UTM Zone 11, NAD83

### Legend

#### Clearwater Water Line Route

#### Surveyed

- - - No
- Yes

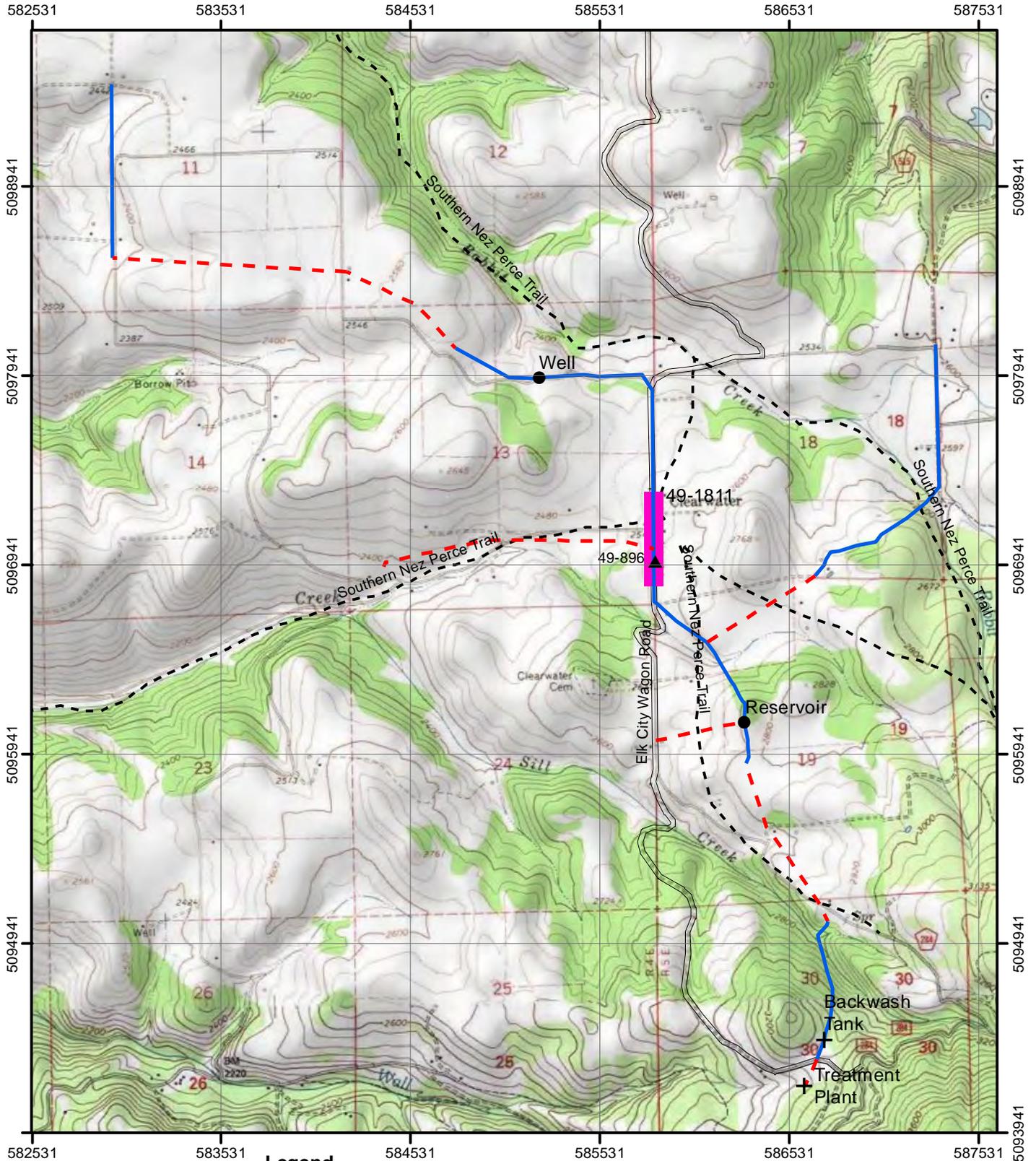
- Light Duty Road
- - - Unmanaged/Unknown

Drafted By: Patrick Baird  
Nez Perce Tribe  
Cultural Resource Program  
Lapwai, Idaho  
June 26, 2012

# Cultural Resource Locations 12-NPT-17

Map 2

## Nez Perce Tribe Cultural Resource Program



### Legend

USGS 7.5' Quadrangle  
Stites, ID [1968]  
Big Cedarm ID [1969]  
Harpster, ID [1965]  
Corral Hill, ID [1965]  
Idaho NAIP 1 meter  
UTM Zone 11, NAD83

- ▲ Historic Sites
- Historic
- ⊕ Modern
- Historic Site Boundary
- Elk City Wagon Road
- - - Southern Nez Perce Trail

### Surveyed

- - - No
- Yes



Drafted By: Patrick Baird  
Nez Perce Tribe  
Cultural Resource Program  
Lapwai, Idaho  
June 26, 2012



Figure 1 Overview of survey area through a grazed field, looking northwest towards Clearwater. Photo 12-NPT-17-D-28



Figure 2 Overview of unsurveyed area through a hay field, looking west. Photo 12-NPT-17-D-52



Figure 3 Feature 1, a 40,000 gallon concrete reservoir built in 1948, with shed addition on the south side. Photo 12-NPT-17-D-014



Figure 4 Feature 2, concrete slab built in 1948 on right, and larger backwash tank built in 1983. Looking south, Photo 12-NPT-17-D-005



Figure 5 Feature 3, historic well on Pleasant Valley Road. Photo 12-NPT-17-D-047



Figure 6 Building 49-896, Clearwater Odd Fellows Hall, looking northeast. Photo 12-NPT-17-D-38

- Spinden, Herbert Joseph  
1908 *The Nez Perce Indians*. *Memoirs of the American Anthropological Association* 2(3):165-274.
- Tekiela, Stan  
2003 *Birds of Idaho Field Guide*. Adventure Publication, Cambridge, Minnesota.
- United States Forest Service (USFS)  
No date Travel The Elk City Wagon Road. [http://www.fs.usda.gov/Internet/FSE\\_DOCUMENTS/fsm91\\_055711.pdf](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsm91_055711.pdf)
- Walker, Deward E., Jr.  
1998 Nez Perce. In *Plateau*, edited by Deward E. Walker, Jr., pp. 420-438. *Handbook of North American Indians*, Vol. 12, William C. Sturtevant, general editor, Smithsonian Institution, Washington, D.C.
- Webb, Delmar H., Richard K. Preece, Oscar P. Mueller, and Mervin Stevens  
1971 *Soil Survey of the Kooskia Area, Idaho*. United States Department Of Agriculture, Soil Conservation Service.  
[http://soildatamart.nrcs.usda.gov/Manuscripts/ID618/0/id618\\_text.pdf](http://soildatamart.nrcs.usda.gov/Manuscripts/ID618/0/id618_text.pdf)

# IDAHO HISTORIC SITES INVENTORY FORM

PROPERTY NAME  FIELD#   
 STREET  **RESTRICT**   
 CITY  VICINITY  COUNTY CD  COUNTY NAME   
 SUBNAME  BLOCK  SUBLOT  ACRES  LESS THAN   
 TAX PARCEL  UTMZ  EASTING  NORTHING   
 TOWNSHIP  N\_S  RANGE  E\_W  SECTION   1/4  1/4  
 QUADRANGLE  OTHERMAP   
 SANBORN MAP  SANBORN MAP#  PHOTO#

PROPERTY TYPE  CONST/ACT1  ACTDATE1  CIRCA1   
 CONST/ACT2  ACTDATE2  CIRCA2

ASSOCIATED FEATURES  TOTAL # FEATURES

ORIGINAL USE	<input type="text" value="Government"/>	WALL MATERIAL	<input type="text" value="CONCRETE"/>
ORIGSUBUSE	<input type="text" value="Community domestic water system"/>	FOUND. MATERIAL	<input type="text" value="CONCRETE"/>
CURRENT USE	<input type="text" value="Government"/>	ROOF MATERIAL	<input type="text" value="METAL: Tin"/>
CURSUBUSE	<input type="text" value="Community domestic water system"/>	OTHER MATERIAL	<input type="text" value="WOOD"/>
ARCHSTYLE	<input type="text" value="No Style"/>	PLAN	<input type="text" value="linear"/>
		CONDITION	<input type="text" value="Good"/>

NR REF #  NPS CERT  ACTIONDATE  FUTURE ELIG DATE   
 DIST/MPLNAME1  DIST/MPLNAME2   
 Individually Eligible  Contributing in a potential district  Noncontributing  Future eligibility   
 Not Eligible  Multiple Property Study  Not evaluated   
 CRITERIA A  B  C  D  CRITERIA CONSIDERATION A  B  C  D  E  F  G   
 AREA OF SIGNIF  AREA OF SIGNIF

**COMMENTS**

Site 12-NPT-17.1 is the existing Clearwater Water System, owned and operated by the Clearwater Water District. The system is extends approximately 9 miles from an intake structure on Wall Creek to mains and distribution lines in Clearwater. The system was built in 1948 by community members, and financed by a FHA loan of \$20,000. Prior to construction of the water system, residents and farmers used wells, many of which were dug by hand and had poor water quality (Tim Straw, personal communication). The District refurbished the system in 1983. Surviving elements from 1948 include Feature 1, a reservoir, Feature 2, a small concrete pad and box adjacent to the Backwash Tank, the intake structure at Wall Creek, and portions of the mains and distribution lines. Notable 1983 additions include the Treatment Plant, Backwash Tank, and portions of the water main.

Feature 1 is a 40,000 gallon reservoir made of poured concrete and partially subterranean (Figure 3). The above ground structure measures 29 ft 6 inches by 21 ft 5 inches by approximately 9 ft high. A 3 ft square by 2 ft 6 inch tall concrete access shaft is located on the roof of the tank. A framed shed adjoins the southeast corner of the structure. The shed measures 8 ft 3 inches by 12 ft 3 inches, and measures approximately 9 ft tall at the highest point.

Feature 2 is a poured concrete foundation with a square box offset from the southeast corner (Figure 4). The slab is probably a storage tank dating to 1948. The slab measures approximately 7 ft square, with box measuring 3 ft x 3 ft x 3 ft high from the surface of the slab. The box has a concrete cover with "11-2-59" scratched into the top when the concrete was still wet. Both the box and the cover have rebar loop handles. A larger "Backwash Tank" was installed just east of the slab in 1983. The poured concrete Backwash Tank is partially subterranean, and measures 20 ft by 12 ft by approximately 4 ft high.

Feature 3 is a small historic well on the south side of Pleasant Valley Road (Figure 5). The visible portion of the well is a 2 ft 11 inches inch diameter concrete pipe. The well is filled with water, and partially covered by 2x6 inch boards. The age of the well is unknown, but it was likely abandoned in 1948, when the water system was constructed.

PROJ/RPT TITLE  SVY DATE  SVY LEVEL   
 RECORDED BY  PH  ADDRESS   
 SUBMITTED PHOTOS  NEGS  SLIDES  SKETCH MAP

SVY RPT #  \*\*\*\*\* FOR ISHPO USE ONLY \*\*\*\*\* IHSI#   
 MS RPT #  SITS#

IDAHO HISTORIC SITES INVENTORY FORM

IHPR # [ ] HABS NO. ID- [ ] HAER NO. ID- [ ] REV# [ ]

CS # [ ] IHSI# REF [ ] NR REF# 2 [ ] REV# REF [ ]

SVY RPT# 1 [ ] SVY RPT# 2 [ ] SVY RPT# 3 [ ] MS RPT# 1 [ ] MS RPT# 2 [ ]

ADD'L NOTES

MORE DATA

ATTACH

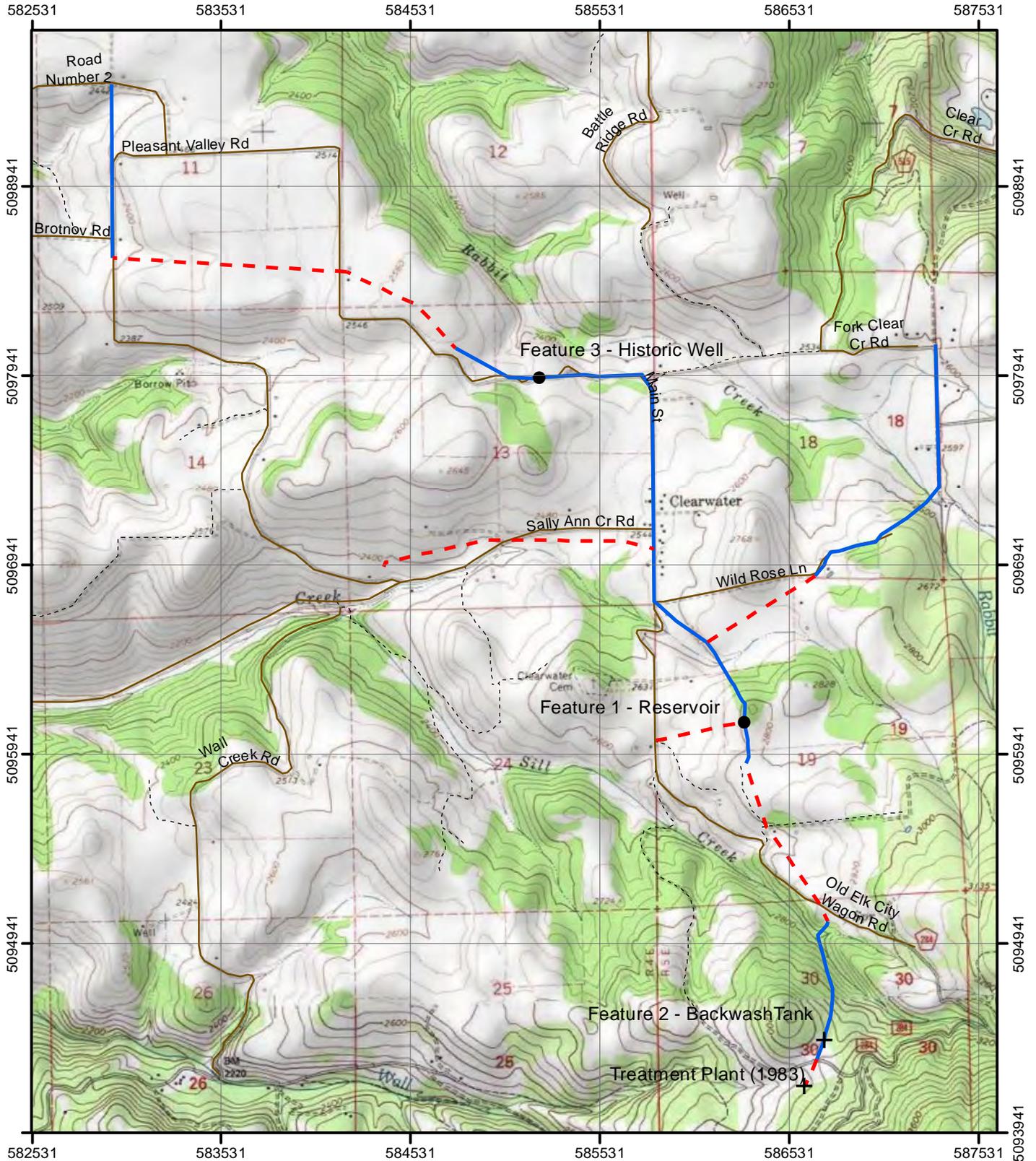
[ ]

# OF PHOTOS [ ] NEGBOX# [ ] # OF SLIDES [ ] SHPO DETER [ ] DETER DATE [ ]

INITIALED [ ] ENTRY DATE [ ] REVISE1 [ ] REVISE2 [ ] REVISE3 [ ]

REV#	SITS#	IHSI#

Field No. 12-NPT-17.1  
 Site Map  
 Nez Perce Tribe Cultural Resource Program



USGS 7.5' Quadrangle  
 Stites, ID [1968]  
 Big Cedarm ID [1969]  
 Harpster, ID [1965]  
 Corral Hill, ID [1965]  
 Idaho NAIP 1 meter  
 UTM Zone 11, NAD83

**Legend**

- Historic
- ⊕ Modern
- Surveyed Segment
- - - Unsurveyd Segment
- Light Duty Road
- - - Unmanaged/Unknown



Drafted By: Patrick Baird  
 Nez Perce Tribe  
 Cultural Resource Program  
 Lapwai, Idaho  
 June 26, 2012



Figure 1 Feature 1, a 40,000 gallon concrete reservoir built in 1948, with shed addition on the south side. Photo 12-NPT-17-D-014



Figure 2 Feature 2, concrete slab built in 1948 on right, and larger backwash tank built in 1983. Looking south, Photo 12-NPT-17-D-005



Figure 3 Feature 3, historic well on Pleasant Valley Road. Photo 12-NPT-17-D-047



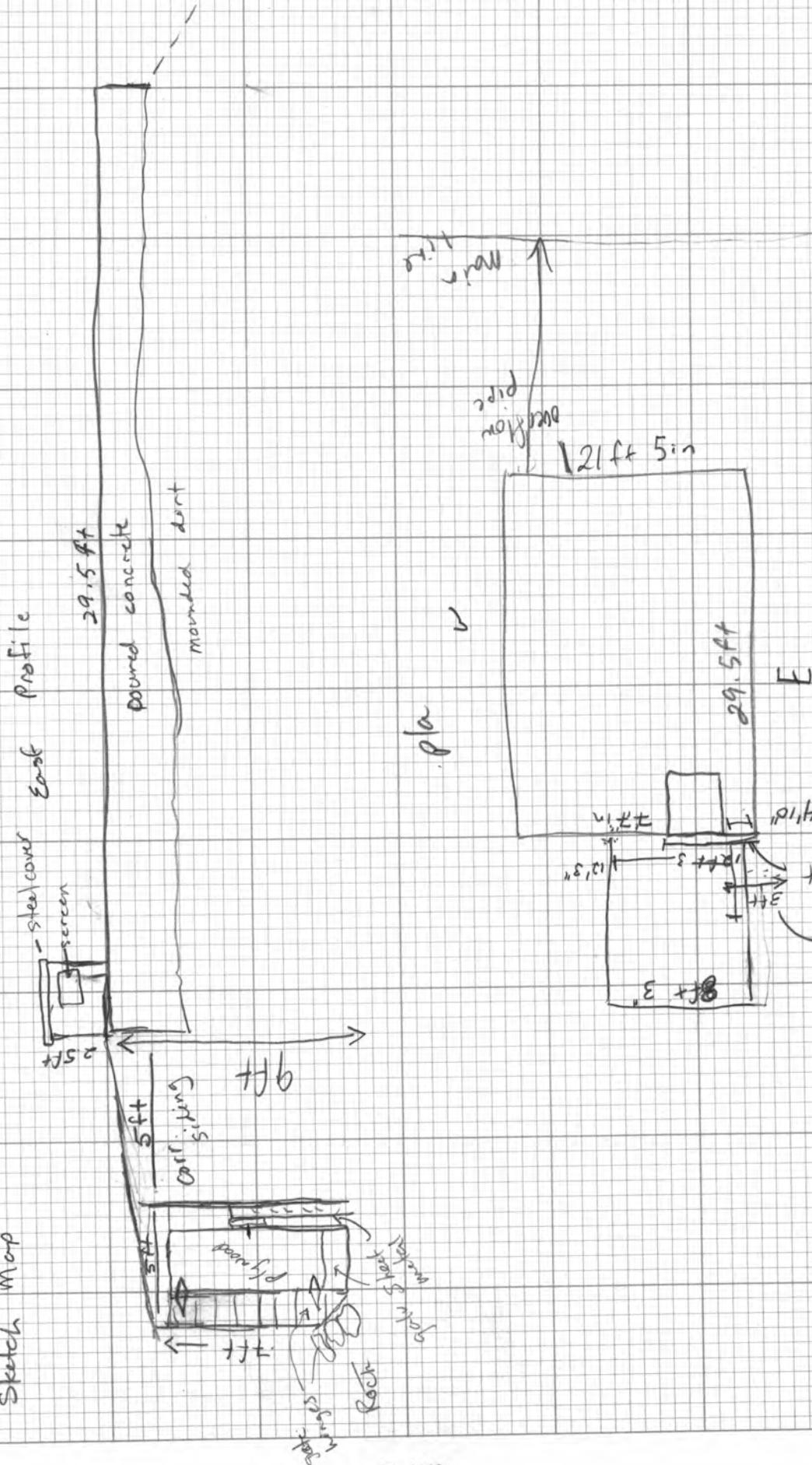
Figure 6 T-post marking the pipeline route and drain valve location. Photo 12-NPT-17-D-79

12-NPT-17

Clearwater Water System Spring  
Feature 1 - Reservoir (40k gal, 1448)

YPB - 6/22/12

Sketch Map

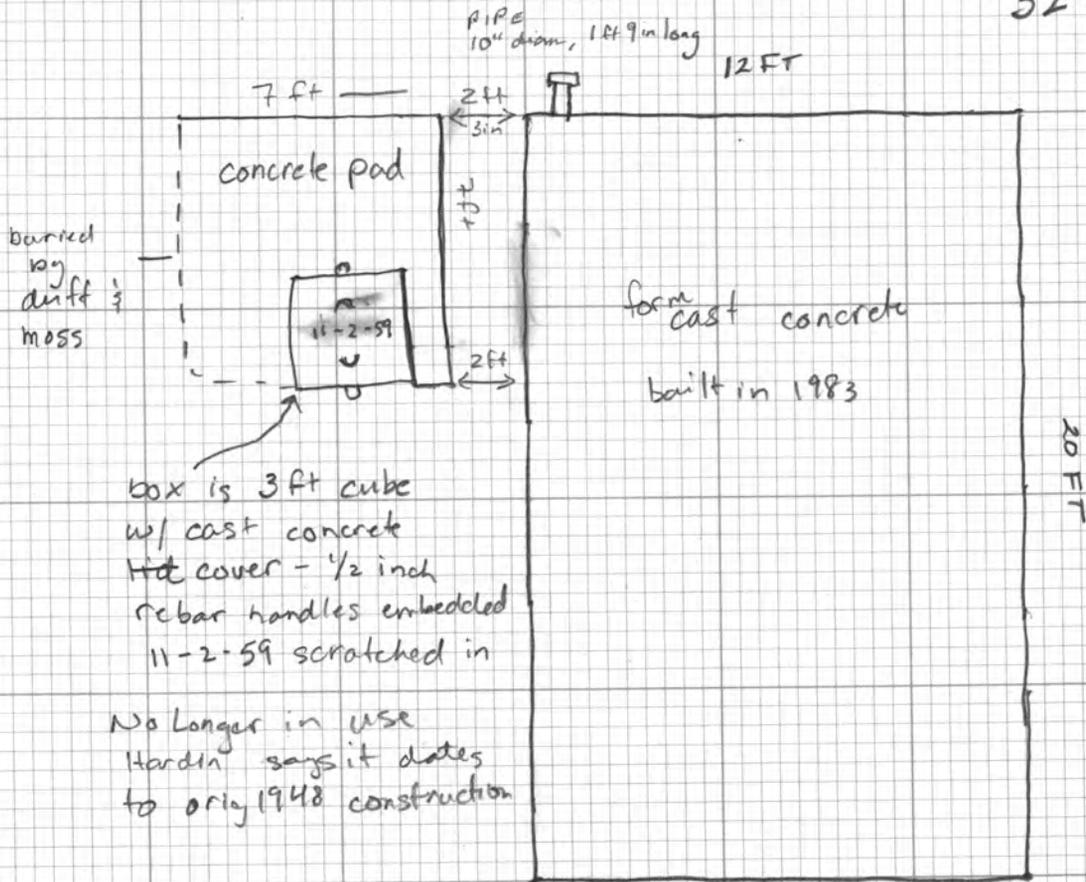


BA doesn't include overhang

12-NPT-17  
 CLEARWATER SURVEY  
 FEAT. 2 - BACKWASH TANK  
 6/25/12 -  
 PAT BAIRD

MAIN TANK  
 12 FT X 32 FT  
 BUILT IN 1983  
 32° LONG AXIS

↑  
 32°



PP1

PP2

## Appendix F – Public Involvement Documentation

## **Advertisement in the Idaho County Free Press**

### **DRAFT RECOMMENDED ALTERNATIVE PUBLIC MEETING**

**NOTICE IS HEREBY GIVEN:** Members of the Clearwater Water District and interested community members are invited to attend a public meeting for the presentation and discussion of the draft Recommended Alternative for the Clearwater Water District - Water System Study Addendum on Saturday, January 21, 2012 at 1:00 p.m. at the Clearwater Grange Hall.

This draft has been developed by TD&H Engineering, at the request of the Clearwater Water District Board, for the purpose of evaluating and providing recommended improvements to the District's existing water distribution and treatment system. This draft will be available for viewing at the public meeting.

The public comment period is January 4, 2012 to February 4, 2012. Written comments may be submitted by: comment cards available at the public meeting; USPS at P.O. Box 314, Stites, ID 83552; or email at [clearwaterwaterdist@gmail.com](mailto:clearwaterwaterdist@gmail.com).

Special accommodations or alternative formats for non-English speaking persons and persons with disabilities will be available, upon request, by contacting the Water District at (208) 926-4278 or TD&H Engineering at (208)746-0938 or by email at least five (5) days prior to the scheduled meeting.

Dated: this 27<sup>th</sup> day of December 2011

/s/ LYLE SMITH

Chairman, Board of Directors  
Clearwater Water District

By: Heather Calkins  
TD&H Engineering

**Clearwater Water District  
Water System Improvements  
Public Meeting for Presentation and Discussion**

**Overview**

The Clearwater Water District owns and operates a water treatment and supply service for the surrounding community; providing water for domestic use, irrigation, and livestock watering. As of 2005, the Idaho Department of Environmental Quality (IDEQ) has found the Clearwater Water District to be in violation of the Idaho Rules for Drinking Water due to excessive levels of turbidity and disinfection by-products (DBP's). There is currently a "Stipulated Judgement and Order" against the District requiring that they comply with water quality standards.

The Clearwater Water District Board has been proactive in remedying this situation. TD&H Engineering has evaluated the existing treatment plant and distribution system and is preparing an amendment to the District's 2005 Water System Study. The purpose of the amendment is to provide recommendations for system improvements that will bring the District into compliance. Several improvement alternatives were developed and evaluated. A draft Water System Study Amendment was then prepared with a recommended alternative. A public meeting will be held on January 21<sup>st</sup>, 2012 to present the draft amendment and recommended alternative for public review and comment. With public feedback, TD&H will finalize the amendment for submittal to IDEQ.

**Initial Screening of Alternatives**

While exploring improvement options that would bring the District's water system into compliance, TD&H has considered alternatives that utilize the existing surface water source, Wall Creek, for water supply as well as alternatives that have a ground water source through the drilling of new wells. The initial alternatives considered were:

Alternative 1: Construct a new membrane filtration system for treatment of the current surface water source and continue to utilize the existing distribution system for both domestic and irrigation/livestock water supply.

Alternative 2: Construct a new membrane filtration system for treatment of the current surface water source for domestic water only. This membrane filter would be smaller than that required with Alternative #1. Construct a new, small diameter distribution system to provide domestic water only. Continue to use the existing surface water source and existing distribution system for irrigation/livestock water.

Alternative 3: Drill new wells to provide a ground water source for public water supply. The existing surface water source will no longer be used. Utilize the existing distribution system for both domestic and irrigation/livestock water.

Alternative 4: Drill new wells to provide a ground water source for public water supply. The existing surface water source will no longer be used. Construct a new, small diameter distribution system to provide domestic water only. The existing distribution system would be used to supply irrigation/livestock water only.

Alternative 5: Drill new wells to provide a ground water source for domestic only water supply. Wells would not require as high a production rate as the wells in Alternatives 4 and 5. Construct a new, small diameter distribution system to supply domestic water only. Continue to utilize the existing surface water source and distribution system for irrigation/livestock water only.

**Public Meeting Notice**

You are invited to attend a public meeting to review and comment on the recommended alternative for water system improvements.

**Saturday, January 21, 2012  
1:00pm to 3:00pm  
Clearwater Grange Hall  
Clearwater, ID**

## Recommended Alternative

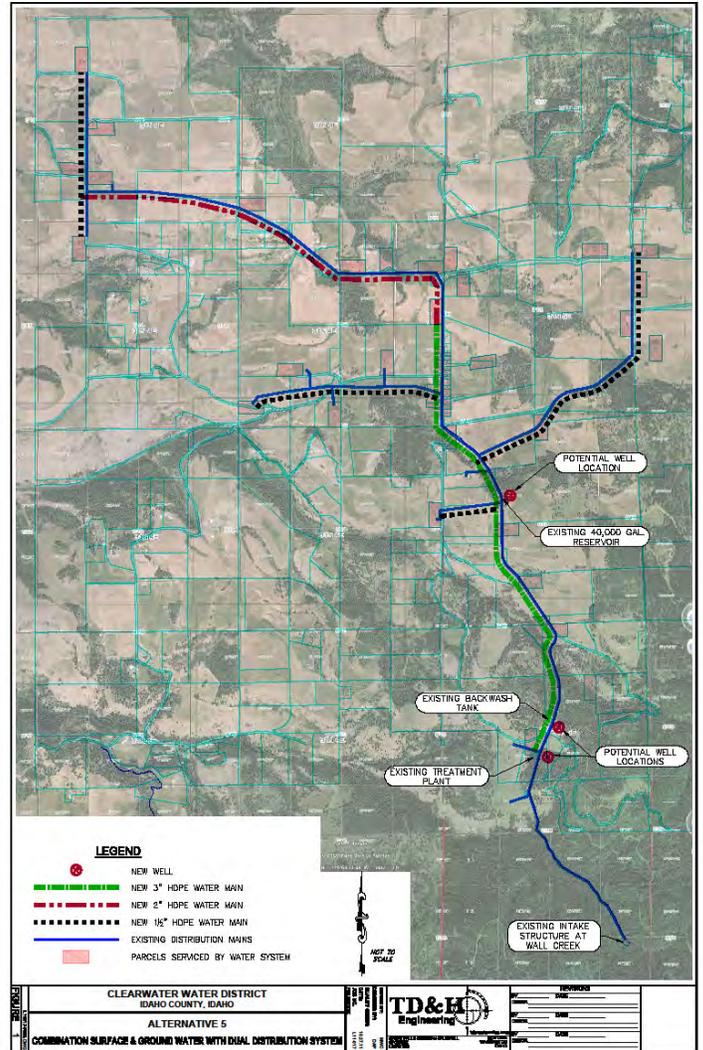
Alternative 5 is the *recommended* alternative contingent on the availability of funding for this level of capital expenses. The advantages and disadvantages of this alternative are listed below.

### Advantages

- A new distribution system for domestic supply.
- Leakage concerns addressed and compliance with DEQ's unaccounted water could be met.
- Utilizing high quality groundwater supply would likely eliminate the need for treatment.
- Operational complexity would be minimized.
- Regulatory complexity and compliance issues would be minimized.
- Quantity of groundwater supply would be minimized thus increasing odds that available supply would be sufficient to meet the District's needs.
- The District should be able to maintain their existing surface water right.
- Leakage and breaks on existing piping network would be less critical since it would serve only non-domestic demands
- Quantity of groundwater supply would be minimized thus increasing odds that available supply would be sufficient to meet the District's needs.

### Disadvantages

- Capital cost is significantly higher than Alternative 3.
- Some risk that the groundwater quantity or quality may not be as expected. Some costs will need to be incurred in order to verify both quantity and quality.
- Water rights would need to be secured for new groundwater system.
- More piping infrastructure to maintain (domestic and non-domestic).



## Public Meeting for Comments

Members of the Clearwater Water District and interested community members are invited to attend a public meeting for the presentation and discussion of the draft Water System Study Amendment and recommended alternative on **Saturday, January 21, 2012 at 1:00pm at the Clearwater Grange Hall.**

The public comment period is January 4, 2012 to February 4, 2012. Written comments may be submitted on comment cards available at the public meeting, or submitted via USPS or email.

Mailing Address: Clearwater Water District  
P.O. Box 314  
Stites, ID 83552

Email Address: [clearwaterwaterdist@gmail.com](mailto:clearwaterwaterdist@gmail.com)

Special accommodations or alternative formats for non-English speaking persons and persons with disabilities will be available, upon request, by contacting the Water District at (208)926-4278 or by email at least five (5) days prior to the scheduled meeting.

Clearwater Water District - Water Study Addendum

Public Meeting

January 21, 2012

Heather Calkins

TJH

Name	Address
Dick Wyatt	WYATT & ASSOC
Susanne Smith	Clearwater
John K. Wood	Clearwater
Daffey & Richard Schaefer	
Dennis Bishop	
Bill & Gloria Jacks	
David Straw	Clearwater
Bill Lane	
Bill McAfee	Hangerman Rd
Mary Keller	
Tom Keller	637 Pleasant Valley Rd.
Bill Horn	163 Clearwater Mn St.
Don & Myrna Wellgas	
MAGGIE CACRET	
Don McLean	139 McLean Dr.
John Hardin	
Jeslie Lynn	
Johnny Wil	
Chad McElully	

Clearwater Water District - Water Study Addendum

Public Meeting

January 21, 2012

Name	Address
Bernadette Straw	
C	
Cecilia Bonanno	
DAN STAMPSON (SP?)	
Dwight W. Martin	
Theresa Young	
Joni Young	
Jesse Hansen	

# Water System Study

Clearwater Water District, Idaho

January 21, 2012

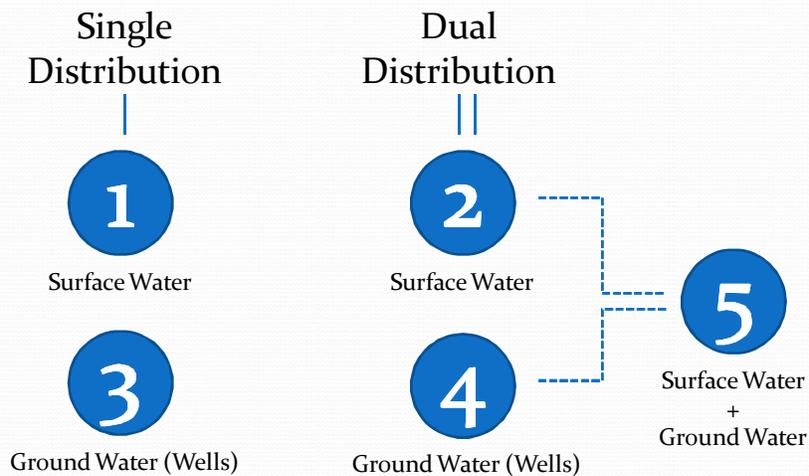


## Why Do Anything, Anyway?

- Seasonal Failure to Meet Turbidity Requirements
- Disinfection Byproducts Exceed Maximum Allowable Levels
- Documented Excessive Leakage Levels
- Aging System = Constant Maintenance



## Overview of Alternatives



## Distribution System: Single vs. Dual

### Single

- + Already there (less initial cost)
- + Only one meter required
- Domestic and irrigation in same pipe (more water to treat)
- Same price for domestic and irrigation water

### Dual

- + Less treated water (if treatment required) = less long term cost
- + More reliability for domestic water
- Twice as many meter readings (meters on domestic and irrigation)
- Higher up-front cost



## Water Supply Options

### Surface Water

- + Already there (less initial cost)
- + Known commodity (you know how much water is available)
- Additional treatment is required (high cost)
- VERY stringent DEQ regulations

### Ground Water

- + Good quality water requires no treatment
- + Less testing costs
- + Fewer regulations
- Actual production is unknown
- Requires additional property



## Evaluation of Alternatives

1

### Single Distribution + Surface Water

- Requires additional treatment (larger membrane filter)
- Water meters required at each property

## Evaluation of Alternatives

2

### Dual Distribution + Surface Water

- Requires additional treatment (smaller membrane filter)
- Water meters required at each property for both domestic and irrigation supplies

## Evaluation of Alternatives

3

### Single Distribution + Ground Water

- No treatment required (no surface water)
- Requires two new wells
- Water meters required at each property

## Evaluation of Alternatives

4

### Dual Distribution + Ground Water

- No treatment required (no surface water)
- Requires two new wells
- Water meters required at each property for both domestic and irrigation supplies

## Evaluation of Alternatives

5

### Combined Supply

- No additional treatment required
- Requires two new wells
- Water meters required at each property for both domestic and irrigation supplies

## Evaluation of Alternatives

~~1~~ Single Distribution + Surface Water  
**Engineer's Recommendation**

2 Dual Distribution + Surface Water

3 Single Distribution + Ground Water

~~4~~ Dual Distribution + Ground Water

5 Combined Supply

## Funding Options

- Existing District Funds
- Sale of Revenue Bonds
- Sale of General Obligation Bonds
- Create a Utility Local Improvement District (LID)
- USDA Rural Development (RD) Grants or Loans
- State of Idaho Dept. of Environmental Quality (DEQ) Grants or Loans
- Water Resources Board (WRB)
- Community Development Block Grant (CDBG)

The District has a pre-approved loan of \$116,000 through RD



## Project Costs

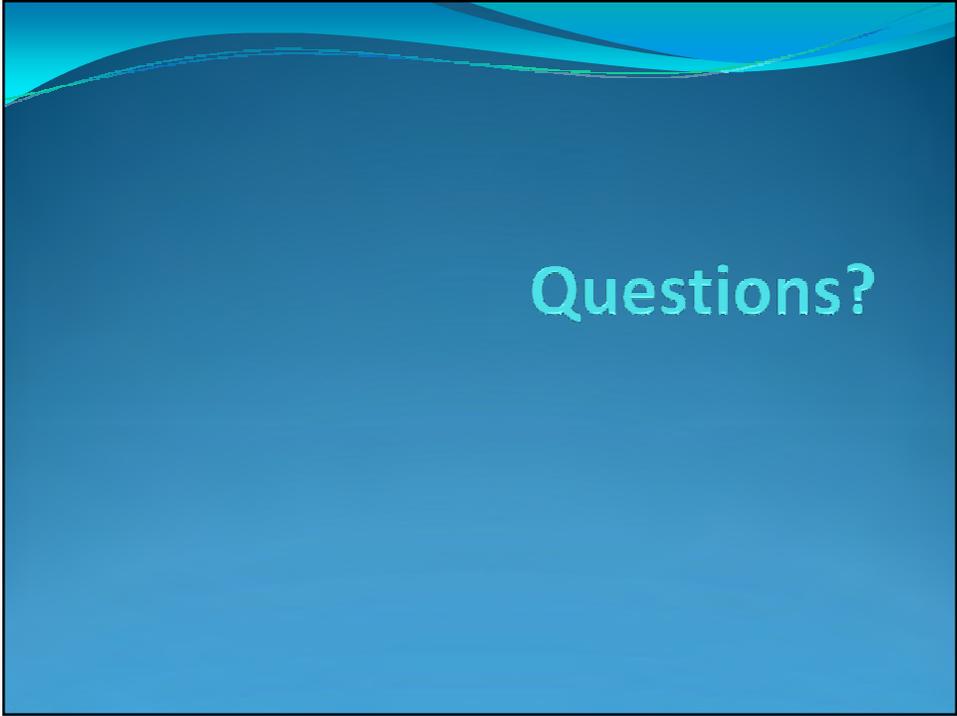
Task	Estimated Costs
Construction	\$529,000
Engineering & Inspection	\$132,000
Grant & Loan Administration	\$60,000
Bonds & Legal	\$10,000
Land Purchase	\$15,000
Subtotal	\$746,000
Contingency	\$72,000
<b>Total Project Costs</b>	<b>\$818,000</b>

## Project Funding

Funding Source	Amount
Rural Development Loan (2.25% for 40 years)	\$205,000
Rural Development Grant	\$313,000
Idaho Community Block Grant	\$300,000
<b>Total Funding</b>	<b>\$818,000</b>

## User Rates

	Annual Debt	Monthly Debt	Monthly Per User Cost
Bond Repayment (40 year loan)	\$7,763.00	\$646.92	\$13.48
10% Debt Service	\$776.30	\$64.69	\$1.35
1 <sup>st</sup> Year DEQ Water Testing	\$1,275.00	\$106.25	\$2.21
Existing System O&M	\$20,000.00	\$1,666.67	\$34.72
New System O&M	\$20,000.00	\$1,666.67	\$34.72
<b>Totals</b>	<b>\$49,287.40</b>	<b>\$4,107.28</b>	<b>\$86.48</b>



Questions?

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

- Domestic use (drinking water, household use) ~~LAWN~~ ~~MAINTENANCE~~
- Irrigation/Livestock ~~LAWN~~ ~~GARAGE~~
- None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

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- Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration
- Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells
- Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

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Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

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If no, which Alternative are you in favor of?

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Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments:

We missed the meeting so not exactly sure if #5 is truly the best. The increase of just under \$200 annually is quite steep.  
Lynn & MaryAnn Brees

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

John Gunter  
113 Gunter Rd  
Clearwater, ID  
83552

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

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Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

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Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments:

Lyle,  
Don't Forget, I have lots of  
water  
John

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Tom & Mary Keller ✓  
637 Pleasant Valley Rd  
Stites, ID  
83552

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: See attached comments

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
P.O.Box 314  
Stites, ID  
83552

Dear Board Members,

We are generally in favor of alternative five because it appears to solve the problems facing the Clearwater Water District with regard to the local municipal water system.

Our preference would have been to leave the system as it is except for replacement of the existing distribution lines. However, we recognize that is not possible given the federal and state governments insistence that all municipal water systems comply with current water quality standards.

Our biggest concern is whether or not the Clearwater Water District can afford \$49,287 per year to service their annual debt if they implement alternative five.

Even if all the current water patrons agreed to pay \$86.48 per month and were diligent about making their monthly payment, it seems questionable as to whether or not \$49,287 would come in annually. The Water District cannot afford to lose even one of their current water patrons if they expect to receive the required annual revenue. It is obvious that some of the current water patrons want nothing to do with the Clearwater Water District and would quickly opt to have their water hookup disconnected if they could. Whether or not there are other people willing to connect to the system in sufficient number to offset those wanting to disconnect, is unknown.

Before the Clearwater Water District can move ahead with implementation of the alternative five, it will be absolutely necessary to be certain there will be at least \$50,000 of income available each year in order to pay for the costs associated with implementing alternative five. We believe the answer to that question will be extremely difficult to determine.

We will continue to participate as Clearwater Water District members, but we are not willing to encumber ourselves financially beyond a reasonable monthly fee for water usage, or our land in order for the Water District to obtain a Rural Development loan. It is our understanding the Water District is not asking for anything from its members other than continued participation as water patrons.

Sincerely,

Tom & Mary Keller  
637 Pleasant Valley Rd  
Stites, ID 83552

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

*at this time -*

Irrigation/Livestock

None - I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 - Combination Surface Water and Ground Water with Dual Distribution System - as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

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Alternative 2 - Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 - Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 - Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: *How many wells could be put side by side down main street & everyone get adequate water? Where could they put all these wells without danger from sewer contamination? Do all the lots have room for a well along with the sewer lines (system)?*



PO BOX 549  
 GRANGEVILLE, ID 83530  
 (208) 983-2356 Office  
 (208) 983-2358 Fax  
 barbara@svdrilling.com

**ESTIMATE**

**DATE:** January 24, 2012  
**NAME:** Marna DeHaas  
 208-983-0155  
 m2rabbit@mtida.net  
**LOCATION:** Clearwater, Next to Lyle Brotnov

QUANTITY	UNIT	DESCRIPTION	PRICE EACH	TOTAL
300	FT	8" Drilling	\$ 18.00	\$ 5,400.00
60	FT	8" Steel Casing	\$ 26.00	\$ 1,560.00
280	FT	4½" PVC Liner	\$ 4.75	\$ 1,330.00
1	EA	8" Drive Shoe	\$ 250.00	\$ 250.00
1	EA	8" Well Cap	\$ 130.00	\$ 130.00
1	EA	Permit	\$ 75.00	\$ 75.00
30	BAG	Bentonite	\$ 10.00	\$ 300.00
1	HR	Surface Seal	\$ 350.00	\$ 350.00
Well Subtotal				\$ 9,395.00
Pump Estimate (This is just to put water to the top of the well.)				\$ 2,625.00
<b>TOTAL</b>				<b>\$ 12,020.00</b>

This estimate is for completing the job as described above. It is based on our evaluation and does not include material price increases or additional labor and materials which may be required should unforeseen problems or adverse weather conditions arise after the work has started. All prices are good for 45 days.

*\$100 per mo for 10 years (without interest)*  
 Doesn't include pressure tank -  
 Interest charges depend on credit rating - & debt to income. The credit unions will only give a personal loan for 72 months. Right now the rate is 11½%. \$12000 loan at these rates would cost \$26392 per mo. for 5 years. (Am) last

pump lasted less than 10 years.  
(NOTE) If you have a line of credit on your home you could possibly use that for financing & you would probably be looking at close to 5% interest & could stretch your payments to 10 yrs. giving you a monthly payment of \$12700. Meaning you'll pay out about \$3220 in interest for of total \$15,240. Compared to credit union fees of \$6982 for a total of \$19,000. (If you get water at 300ft!)

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

Have my own well

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

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\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes     No

If yes, is this your only water source?

Yes     No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes     No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes     No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

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Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

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Yes     No

If yes, is this your only water source?

Yes     No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes     No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes     No

If no, which Alternative are you in favor of?

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Additional Comments: \_\_\_\_\_

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Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

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Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None -- I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

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Yes  No

If no, which Alternative are you in favor of?

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Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

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\_\_\_\_\_  
\_\_\_\_\_

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Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

*Depends on price*

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

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Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
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Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/~~Livestock~~

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
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Are you in agreement with this recommendation?

Yes  No

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Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

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Yes  No

If yes, is this your only water source?

Yes  No

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Domestic use (drinking water, household use)

Irrigation/Livestock

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If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

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Are you in agreement with this recommendation?

Yes  No

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Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
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Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

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Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

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Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

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Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: FOR THE GOOD OF THE COMMUNITY THE WATER SYSTEM MUST BE UPGRADED TO MEET THE DEQ'S REQUIREMENTS & TO MEET THE FIRE DEPT'S REQUIREMENTS RATING FOR CHEAPER INSURANCE.

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Joel & Janet Hardin  
225 Mill Rd  
Clearwater ID  
83552

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

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Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## TRACKING STEP BY STEP... JOEL HARDIN PROFESSIONAL TRACKING SERVICES

225 Mill Road, Clearwater, Idaho 83552-5116 telephone 208-926-4390 Email: Joel@jhardin-inc.com

January 23, 2012

TO: TD&H Engineering  
Clearwater Water District  
P.O. Box 314  
Stites, ID 83552

FR: Joel & Janet Hardin  
225 Mill Rd.  
Clearwater, ID 83552-5116

SUBJECT: Public Meeting Notice – Clearwater Water District – Comments

TD&H,

Janet and I agree with the TD&H recommendations of “Alternative 5” – dual, domestic and separate irrigation/stock water distribution to water district hook-ups.

Prior to any bonding issues discussion and public hearing:

We would like to see presented to the water district membership a notarized written statement signed by signatories of all parties of the legal action filed with and under jurisdiction of the District Court, which presently encumbers the water district. That, under the following conditions, 1) construction completion of Alternative #5 and; 2) satisfactory operation and initial satisfactory domestic water quality and quantity testing; the two conditions satisfy and fulfill all conditions and issues initiated and promulgated by any and all governmental agencies and all conditions and issues arising from all governmental agency actions or public service legal issues or complaints, filed with and under the jurisdiction of the District Court order which presently encumbers the Clearwater Water District.

Further, that all parties to any and all legal actions in regard to the Clearwater Water District agree that with the above conditions having been met and satisfied there are no further encumbrances or conditions by which any party, or federal or state agency has interest in, with, or concerning in any matter with the Clearwater Water District.

Further that there in, after and in regard to the foregoing legal encumbrances having been fully satisfied the Clearwater Water District is free to return to pre-legal encumbrance business in so long as the water district operates within the State of Idaho and County of Idaho guidelines for such independent water associations and districts.

QUESTION: Who pays for the individual homeowner hook-up costs? Who pays for the costs of running the new lines and installing the new domestic water system from the main line to and connected for use in the private home?

Thank you for the clear and full explanation of the five different alternative proposals.

*Joel & Janet Hardin*  
Joel & Janet Hardin  
225 MILL Rd  
Clearwater ID  
83552

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative. *ensure on this one*

Are you in agreement with this recommendation?

Yes  No *w/ reservations*

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: *We need cost estimates on the other 4 alternatives to make our decision. We chose #1 for lack of more information, however we could change our minds depending on cost and other factors.*

January 31, 2012

In response to your question of whether I'm in agreement with Alternative 5...it's not a yes or no answer. According to the estimates given this increases the annual payment about \$200 a year. How reliable is this estimate? \$200 a year is a large increase, but my fear is that it could be even more.

A couple of my bigger concerns is the fact that I own a share that is equal to anyone else's share and I pay the same annual rate as any other user, but it's my understanding that I don't have a vote because this isn't my primary residence. There's a problem with this picture. The second concern is the fact that users are in essence being held captive by the water district. A user who wants to separate from the district should have a right to do so. Even if the district decides to assess that user his portion of the unpaid "current", they should be allowed to leave the district and pursue alternatives. I say "current" debt because at this point that would probably be doable for users. It wouldn't be after the district goes into debt for another system whichever Alternative is chosen.

I have some doubts of being able to attract many new users for the reasons above. I realize that the district is being mandated to do make changes and improvements. That is beyond of the control of the district, however, the district set up the conditions that allow one to vote or not and to leave the district or not.

I will be looking forward to new information as it becomes available.

Mary Barker  
T. H. Tholl account  
Jericho Rd

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Jessi Miller  
590 Country Rd 385  
Valley View, TX  
70272

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None - I do not use the service

Absent owner

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

TO EXPENSIVE, DISLIKE CHLORINE IN WATER

The District's engineer has selected Alternative 5 - Combination Surface Water and Ground Water with Dual Distribution System - as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 - Existing Distribution System w/ Large Scale Membrane Filtration

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Alternative 4 - Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: Let property owners choose to be disconnected from the water district water I have a well for water use with the reimbursement by the water district - NO FINES OF ANY AMOUNT.

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No *Still not sure*

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: *There is still lot of ifs in this and more questions to be answered.*

\_\_\_\_\_  
\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None -- I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

Reverse

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

January 23, 2012

To Whom It May Concern:

This question of the Clearwater Water District is a difficult one to answer. As much as I hate to say this, I feel that the District has lived out its usefulness and needs to be dissolved.

I base this on the fact that in 1983 the establishment of the District was not properly executed. Over the years as I have attend the meetings, more and more information has been gleaned to the Patron; concerning major management issues not completed and or executed. These glaring errors have ramifications to us as property owners (i.e. the property descriptions were not legally surveyed, the fact that we were never filed with the State of Idaho as a taxing district, and it was never pointed out that we NO LONGER own this system . . . the State of Idaho owns it . . . once we voted "YES" to formulate a District, etc. etc.) The laundry list of "bungled jobs" just keeps getting longer! Why continue to "prop up" an organization that has no foundation.

The discord between the Board, the Patrons and the community has not changed in the last 30 years! This had left a mark in the community that can never be erased! Besides, the District Patron base had changed from families; . . . . to senior- senior citizens & absentee ownership. I sincerely question the District's ability to increase its user base given the "old- general feeling" about the Clearwater Water District. This together does not add up to a cohesive future for the District and its plans to upgrade.

The system was never originally intended as a portable water source and I feel that if the ranchers want to "take back their system" they should be allowed to do so under their own organization. As for potable water; I feel that the community of Clearwater should band together and seek grants to drill one or two community wells to provide water to the Clearwater Town site.

As for the rest of us, that do not all ready own a well, my research has led me to believe that there is grant money available through the Farm Service Agency to establish water on agricultural property.

Please understand, I have nothing but respect and admiration for the present Board. You have chosen to take on heartache and stress of monumental proportion! For the years of keeping the water flowing, THANK YOU. I in no way lay the blame, for this crumbling mess, at your door. You have gone above and beyond what should be asked of from a group of volunteers! That is why I feel it is time to bring closure to the Clearwater Water District saga.

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: Use existing SURFACE WATER WITH 25,000 GALS STORAGE TANK - GRAVITY FLOW WATER, TO MAINTAIN PRESENT WATER RIGHTS, AND SECURE OF FUTURE USDA SPECIAL USE OF WALL CREEK

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None - I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

We have a well already. The cost is getting too high for us to pay. If the monthly cost increases, we won't be able to afford it.

The District's engineer has selected Alternative 5 - Combination Surface Water and Ground Water with Dual Distribution System - as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 - Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 - Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 - Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 - Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: See above.

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments:

*The feasibility of drilling wells in my opinion, is too much of a financial task considering the age of our customers. We need to use as much of our present resources as possible to avoid the future potential of levy of taxation. Thank you!*

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

\_\_\_\_\_

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Clearwater Water District  
Water System Improvements

Public Meeting  
January 21, 2012

Martin  
235 Jericho Rd  
Kooskia, ID  
83539

Are you currently connected to the Clearwater Water District system?

Yes  No

If yes, is this your only water source?

Yes  No

If you are connected to the District's system, please check all water uses that apply to you:

Domestic use (drinking water, household use)

Irrigation/Livestock

None – I do not use the service

If you are not currently connected to the District's system, are you interested in connecting in the future?

Yes  No

If you are not interested in receiving water from the District, please explain why not: \_\_\_\_\_

Not interested, would like to get off District  
To <sup>much</sup> expense, I do not need District, we use our  
well's quite abit.

The District's engineer has selected Alternative 5 – Combination Surface Water and Ground Water with Dual Distribution System – as the recommended alternative.

Are you in agreement with this recommendation?

Yes  No

If no, which Alternative are you in favor of?

(Note: "Do Nothing" is not a viable option since the Water District is out of compliance with State drinking water regulations)

Neither

Alternative 1 – Existing Distribution System w/ Large Scale Membrane Filtration

Alternative 2 – Dual Distribution System w/ Smaller Membrane Filtration

Alternative 3 – Existing Distribution System w/ Two Deep (High Production) Wells

Alternative 4 – Dual Distribution System w/ Two New Lower Production Wells

Additional Comments: We will never be able to  
keep up with EPA-DEQ requirements,  
which are always changing to accomodate  
keeping their offices.

CLEARWATER WATER DISTRICT

P.O. BOX 314

STITES, IDAHO 83552

BOARD OF DIRECTORS –SPECIAL MEETING

February 07, 2012

Meeting was called to order by Chairman Lyle Smith.

Board Members present were Vinal Hardin, Leslie Lynn, and John Wood.

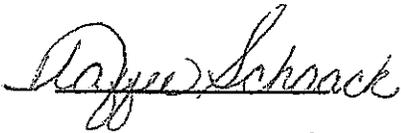
The Board of Directors held a Special Meeting to review the public comments and to make a recommendation as to which Alternative they supported.

Lyle Smith, Chairman, made the motion to support Alternative #5.

The Board voted 3- Yes, 0- No;

Motion Carried.

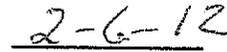
**Let the Record Reflect:** The Board of Directors hereby approve and support Alternative #5 – Ground Water System for Potable water with Surface System utilized as Irrigation.



Secretary



Chairman



Date

Cc: Heather- TD&H Engineering

Dick – Wyatt & Associates