1834394

# Groundwater Data Summary Report June 2016, Seasonally High Groundwater Monitoring Event

Former Frenchtown Mill
Missoula County, Montana

***Prepared for:***
*International Paper Company*
*6400 Poplar Avenue*
*Memphis, TN 38197*

*M2Green Redevelopment, LLC*
*14377 Pulp Mill Road*
*Missoula, MT 59808*

*WestRock CP, LLC*
*P.O. Box 4098*
*Norcross, GA 30097*

***Prepared by:***
*NewFields Companies, LLC*
*1120 Cedar Street*
*Missoula, Montana 59802*
*U.S.A.*

NewFields

September 2016
Project No. 350.0065

DRAFT (Version 1)

# TABLE OF CONTENTS

**1.0 INTRODUCTION ..... 2**

1.1 SITE DESCRIPTION ..... 2
1.2 PURPOSE OF INVESTIGATION AND REPORT ..... 3
1.3 PREVIOUS INVESTIGATIONS ..... 3
1.4 REPORT ORGANIZATION ..... 4

**2.0 APPROACH AND METHODS ..... 5**

2.1 FIELD DATA COLLECTION AND SAMPLE HANDLING ..... 5
2.2 GROUNDWATER ELEVATIONS AND FLOW ..... 6
2.3 GROUNDWATER SAMPLE COLLECTION ..... 6

**3.0 RESULTS ..... 7**

3.1 SHALLOW GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS ..... 7
3.2 GROUNDWATER QUALITY RESULTS ..... 8

**4.0 DATA QUALITY AND MANAGEMENT ..... 11**

4.1 DEVIATIONS FROM THE FIELD SAMPLING PLAN AND ADDENDUM #1 ..... 11
4.2 DATA VALIDATION AND USABILITY ..... 11
4.2.1 Reconciliation with Data Quality Indicators and Objectives ..... 11
4.3 DATA MANAGEMENT ..... 11

**5.0 REFERENCES ..... 12**



DRAFT (Version 1)

## LIST OF FIGURES


| | |
|---|---|
| Figure 1 | Site Location Map |
| Figure 2 | Groundwater Sampling Locations and Flow Map |
| Figure 3 | Seasonal Change in Groundwater Level |
| Figure 4 | Hydrographs |
| Figure 5 | Specific Conductance in Groundwater |
| Figure 6 | Piper Diagrams |
| Figure 7 | TEQ Dioxin Concentrations in Groundwater |
| Figure 8 | Arsenic and Manganese Concentrations in Groundwater |


## LIST OF TABLES


| | |
|---|---|
| Table 1 | Groundwater Monitoring Locations |
| Table 2 | Groundwater Elevations and Field Parameters |
| Table 3 | Dioxin and Furan Concentrations in Groundwater |
| Table 4 | Dissolved Metal Concentrations in Groundwater |
| Table 5 | PCB (Aroclor) Concentrations in Groundwater |
| Table 6 | Groundwater Quality Parameters (Common Ions) |


## LIST OF APPENDICES


Appendix A Field Notes and Forms
- A1 – Daily Field Records
- A2 – Groundwater Sampling Forms
- A3 – Field Equipment Calibration Sheets

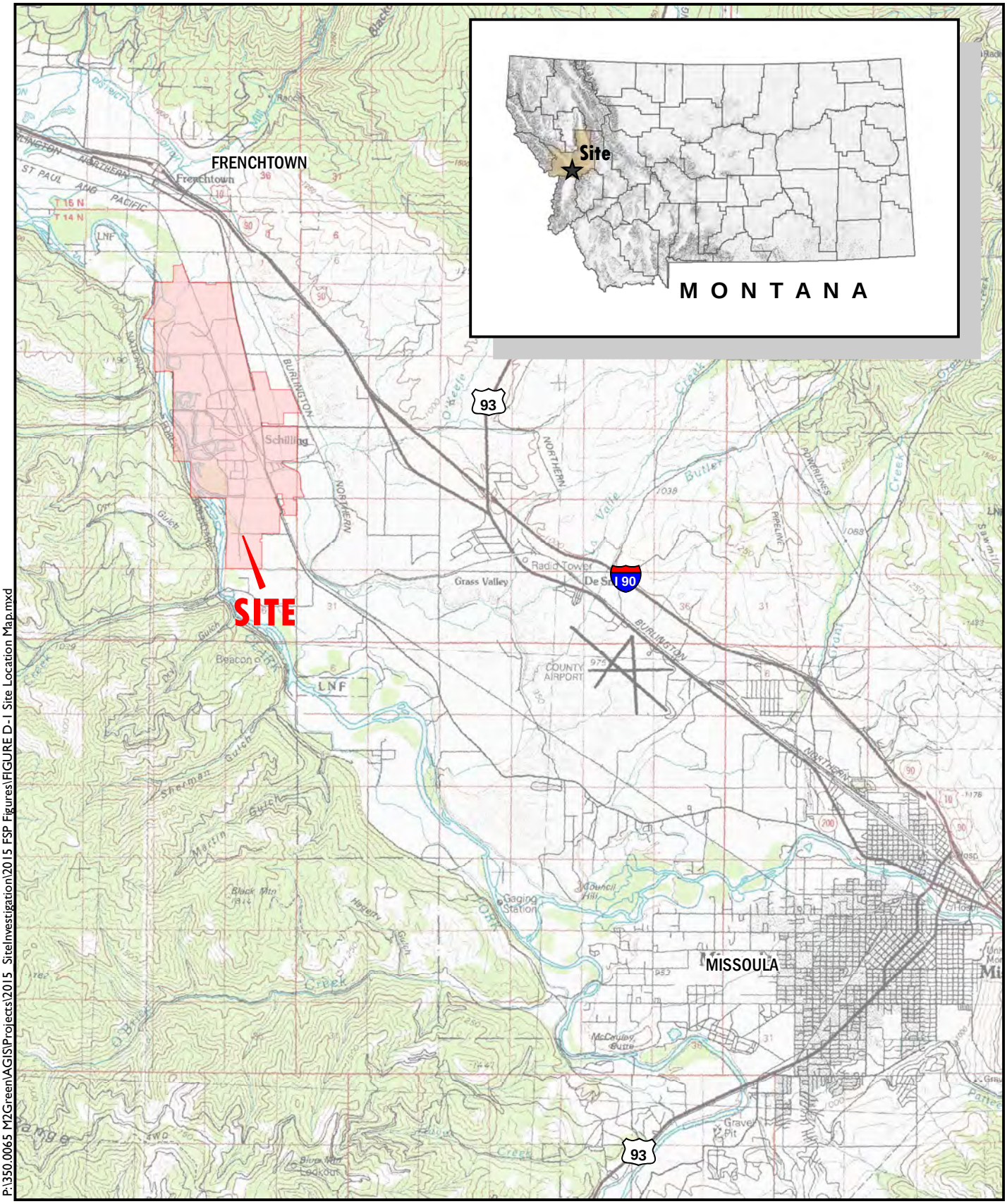
Appendix B Data Validation Summary

Appendix C Analytical Laboratory Reports
- C1 – Frontier Analytical
- C2 – Pace Analytical Services




DRAFT (Version 1)

# FIGURES




P:\350.0065 M2Green\AGIS\Projects\2015 SiteInvestigation\2015 FSP Figures\FIGURE D-1 Site Location Map.mxd

Source: Montana USGS 100K Topographic Map

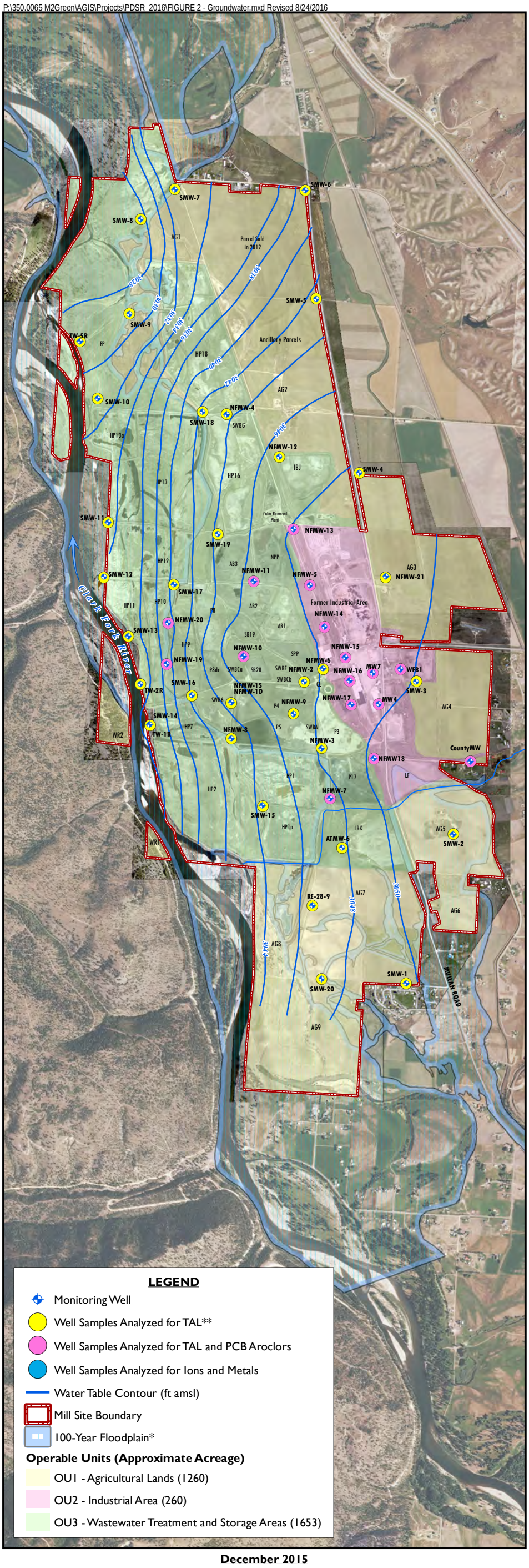
0 Feet 10,000

NewFields

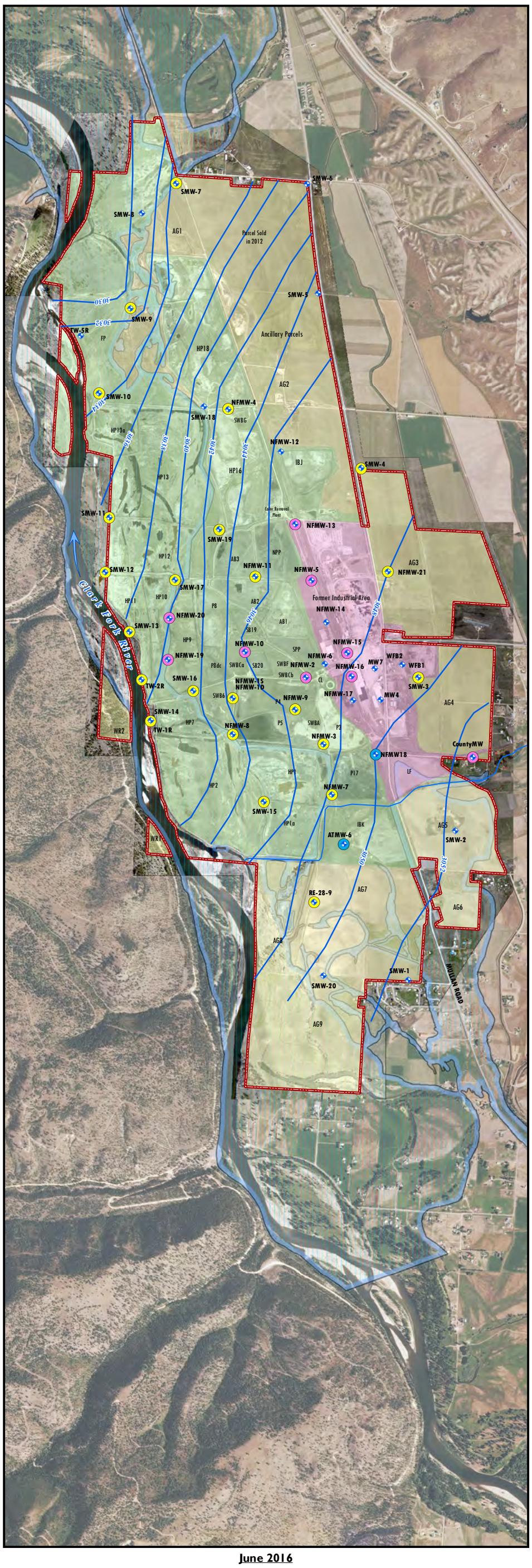
**Site Location Map**
**Former Frenchtown Mill Site**
**Missoula County, Montana**
**FIGURE 1**

DRAFT (Version 1)

P:\350.0065 M2Green\AGIS\Projects\PDSR_2016\FIGURE 2 - Groundwater.mxd Revised 8/24/2016




December 2015




June 2016

Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

0 Feet 2,500

NewFields

*Floodplain Source:
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

**TAL analytes include metals, dioxins, and common ions. Wells highlighted pink include TAL analysis and PCB analysis

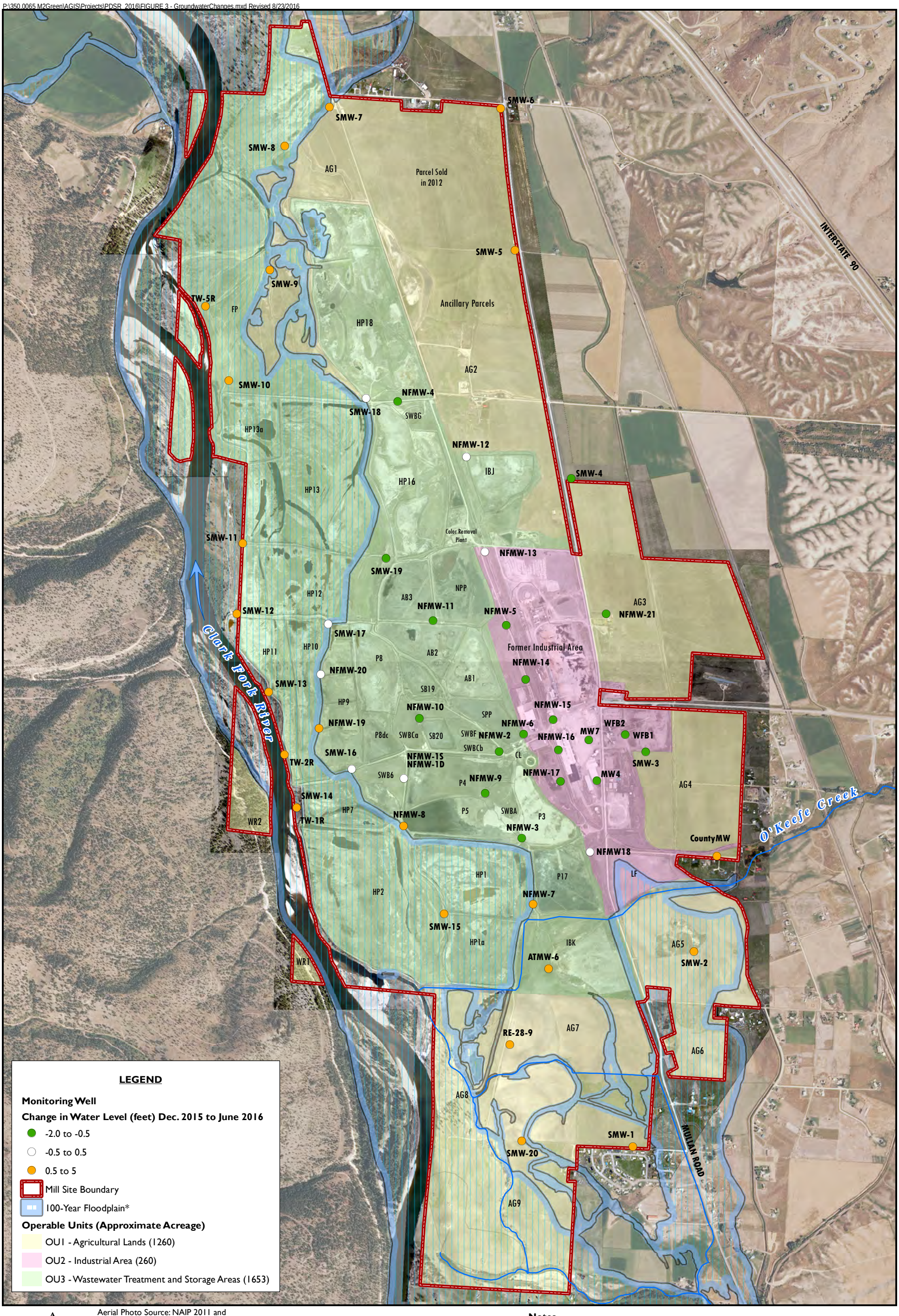
**Notes**

AG - Agricultural Land
AB - Aeration Stabilization Basin
CR - Clarifyer
FP - Flood Plain
HP - Holding or Storage Pond
IB - Rapid Infiltration Basin
ft amsl - Feet Above Mean Sea Level
LF - Landfarm
NPP - North Polishing Pond
P - Settling Pond
SB - Spoils Basin
SPP - South Polishing Pond
SWB - Solid Waste Basin
TAL - Target analyte list
WR - West of River

Groundwater Sampling Locations and Flow Map
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 2

DRAFT (Version 1)

P:\350.0065 M2Green\AGIS\Projects\PDSR_2016\FIGURE 3 - GroundwaterChanges.mxd Revised 8/23/2016




Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

N

0 Feet 1,600

NewFields

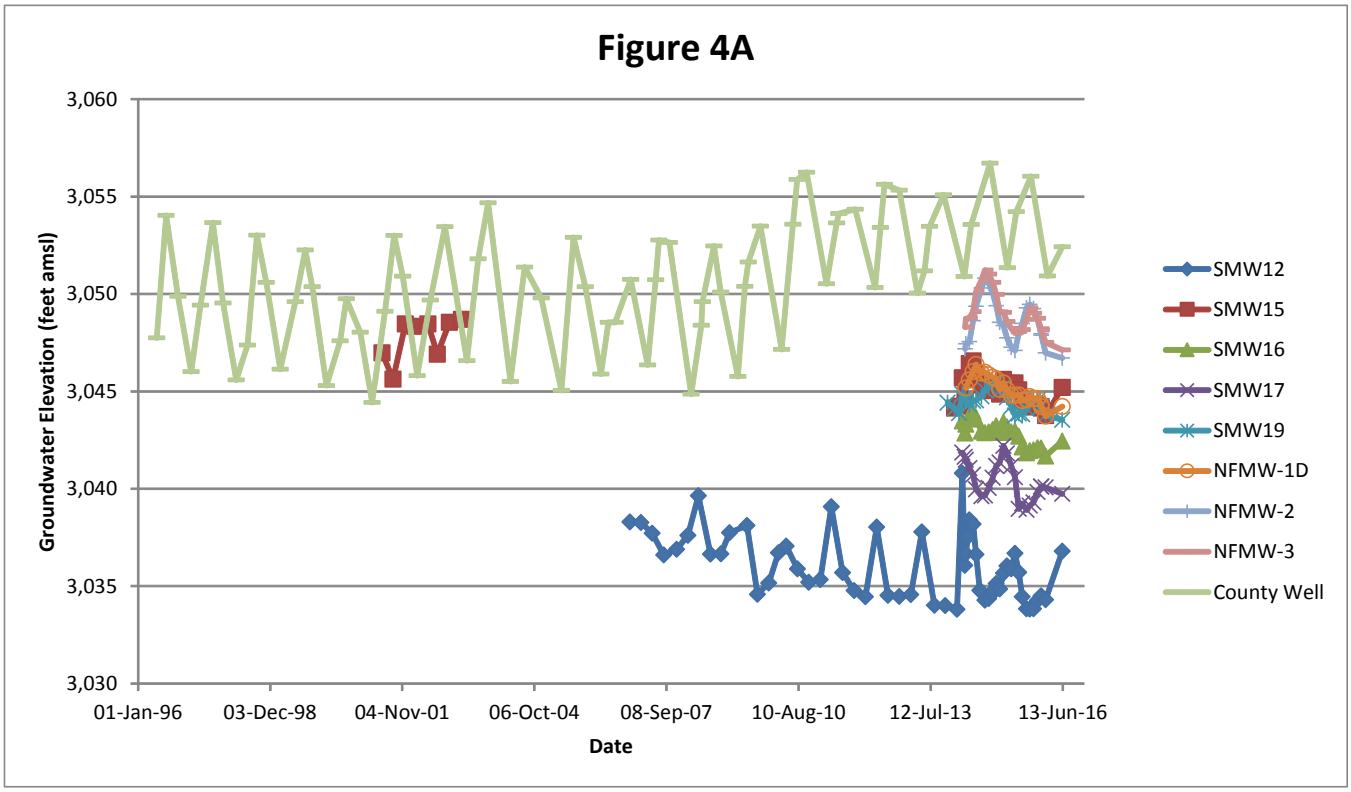
*Floodplain Source:
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

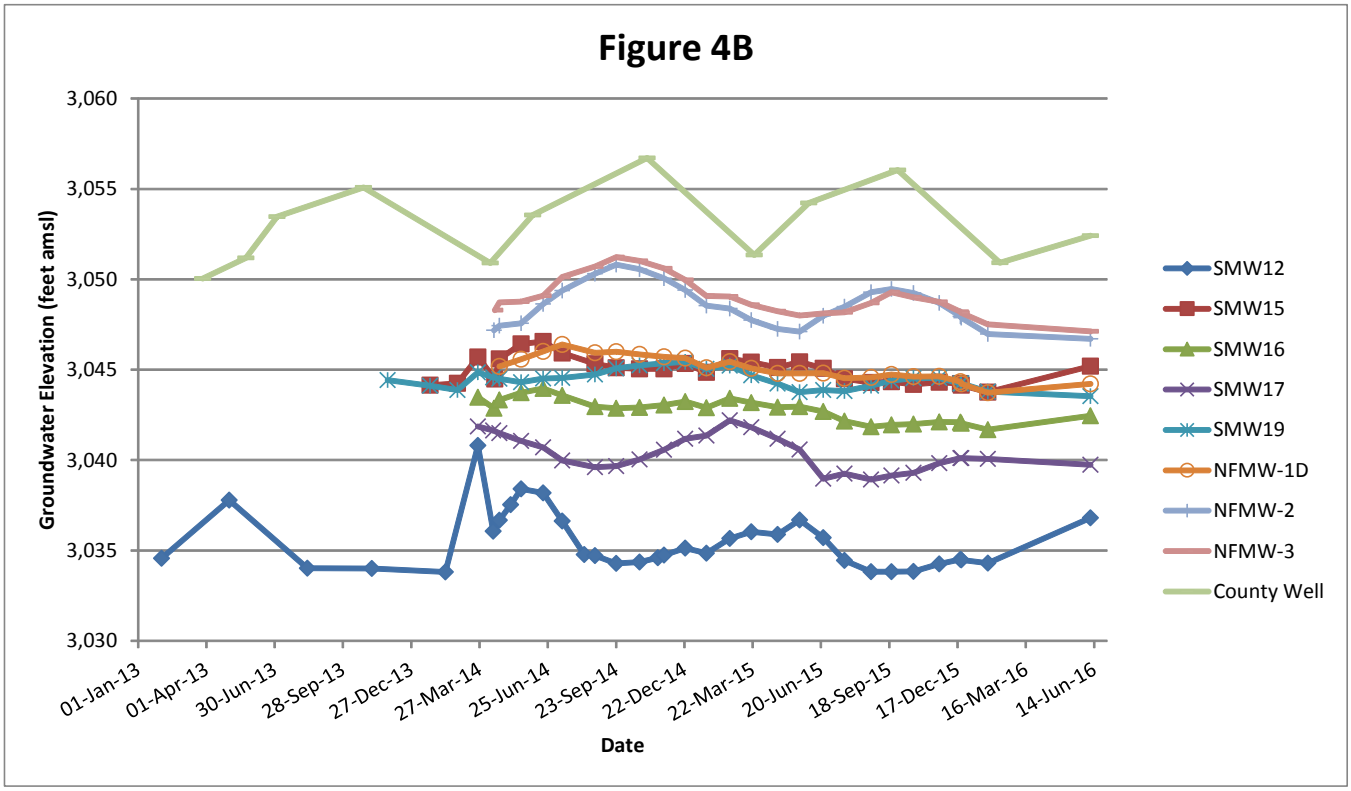
**Notes**

AG - Agricultural Land
AB - Aeration Stabilization Basin
CR - Clarifyer
FP - Flood Plain
HP - Holding or Storage Pond
IB - Rapid Infiltration Basin
ft amsl - Feet Above Mean Sea Level
LF - Landfarm
NPP - North Polishing Pond
P - Settling Pond
SB - Spoils Basin
SPP - South Polishing Pond
SWB - Solid Waste Basin
WR - West of River

**Seasonal Change in Groundwater Level**
**Former Frenchtown Mill Site**
**Missoula County, Montana**
**FIGURE 3**

DRAFT (Version 1)




P:\350.0065 M2Green\AGIS\Projects\PDSR_2016\FIGURE 4 - Hydrographs.mxd

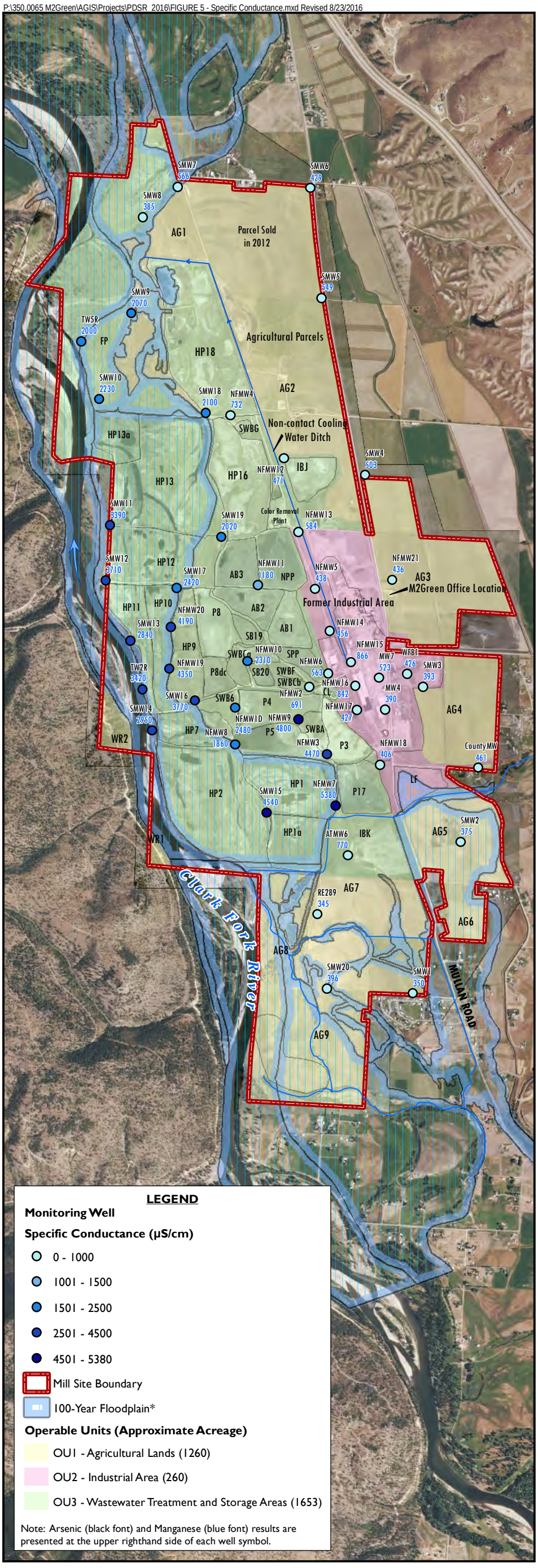
**Note**
amsl - above mean sea level

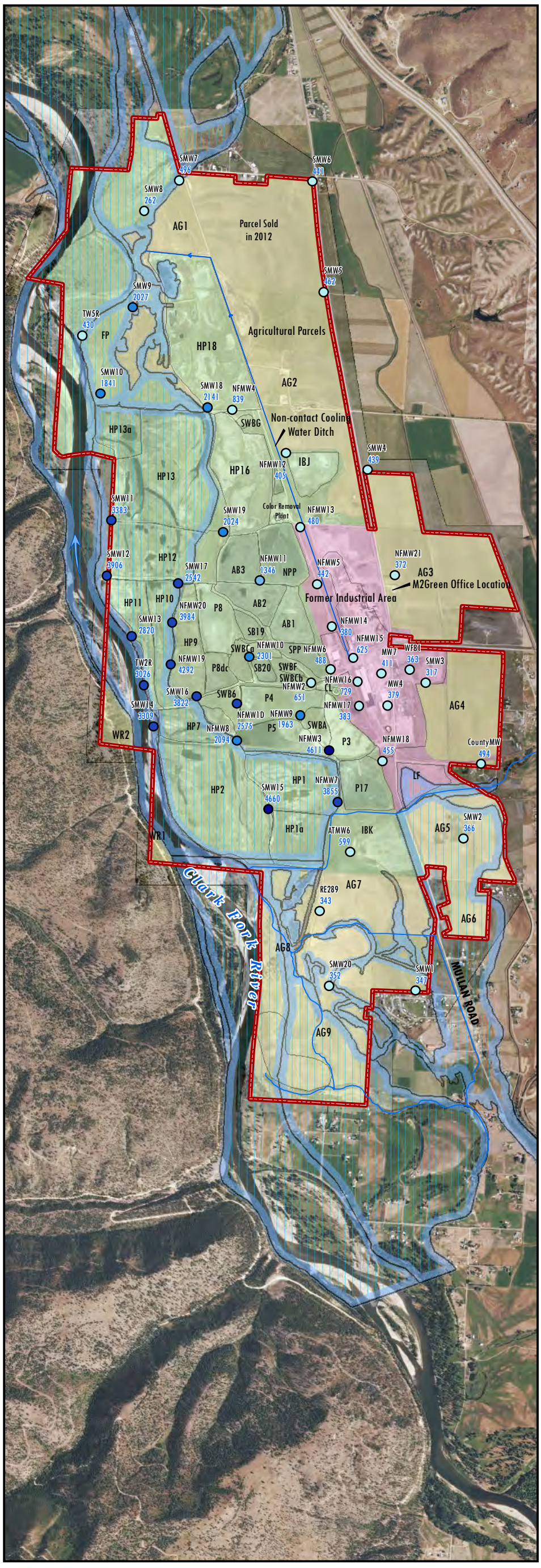
NewFields

Hydrographs
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 4

DRAFT (Version 1)

P:\350.0065 M2Green\AGIS\Projects\PDSR_2016\FIGURE 5 - Specific Conductance.mxd Revised 8/23/2016




**LEGEND**

**Monitoring Well**

**Specific Conductance (µS/cm)**

- 0 - 1000
- 1001 - 1500
- 1501 - 2500
- 2501 - 4500
- 4501 - 5380
- Mill Site Boundary
- 100-Year Floodplain*

**Operable Units (Approximate Acreage)**

- OU1 - Agricultural Lands (1260)
- OU2 - Industrial Area (260)
- OU3 - Wastewater Treatment and Storage Areas (1653)

Note: Arsenic (black font) and Manganese (blue font) results are presented at the upper righthand side of each well symbol.

**December 2015**

**June 2016**

N

0 Feet 2,500

NewFields

Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

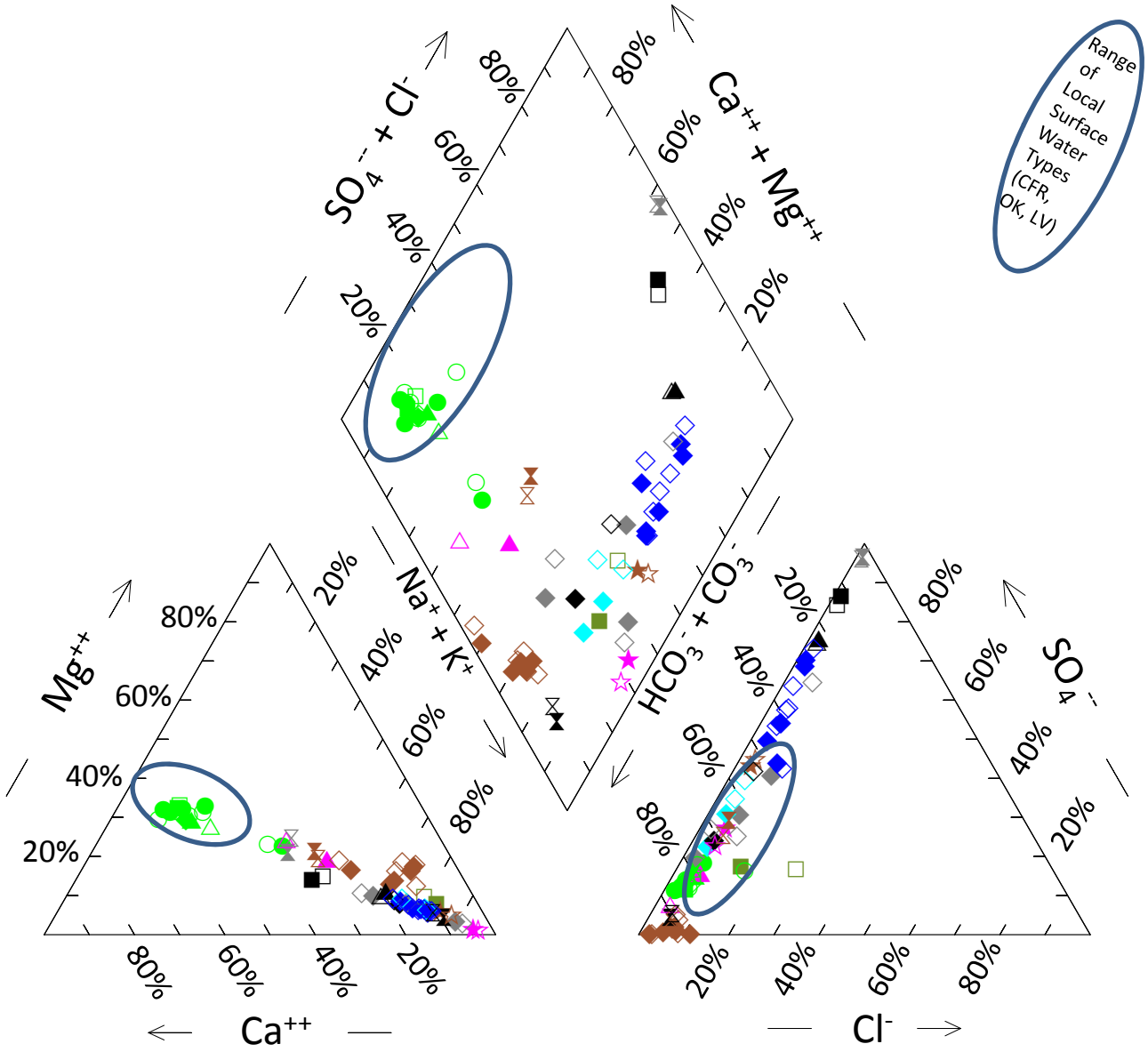
*Floodplain Source: As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

**Notes**

AG - Agricultural Land
AB - Aeration Stabilization Basin
CFR - Clark Fork River
CL - Clarifier
FP - Flood Plain
HP - Holding or Storage Pond
IB - Rapid Infiltration Basin
µS/cm - micro Siemens per centimeter
J - result is estimated
NPP - North Polishing Pond
P - Settling Pond
SB - Spoils Basin
SPP - South Polishing Pond
SWB - Solid Waste Basin
WR - West of River

Specific Conductance in Groundwater
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 5

DRAFT (Version 1)




Sample Locations

| | Dec. 2015 | June 2016 |
|---|---|---|
| Upgradient to WWTS | CountyMW, NFMW21, SMW3, SMW4, SMW7, RE289, NFMW13, NFMW5 | CountyMW, NFMW21, SMW3, SMW4, SMW7, RE289, NFMW13, NFMW5 |
| Downgradient of Industrial area | NFMW16, NFMW15 | NFMW16, NFMW15 |
| Downgradient of infiltration Basins and storage ponds | NFMW18, NFMW4, ATMW6, SMW9, SMW15 | NFMW18, NFMW4, ATMW6, SMW9, SMW15 |
| Downgradient of ASBs | NFMW11, SMW19 | NFMW11, SMW19 |
| Downgradient of settling ponds, or solid wastes | NFMW2, NFMW10, NFMW7, NFMW3, NFMW1D, NFMW8, NFMW9 | NFMW2, NFMW10, NFMW7, NFMW3, NFMW1D, NFMW8, NFMW9 |
| Downgradient of treatment and storage ponds | NFMW19, NFMW20, SMW17, SMW16 | NFMW19, NFMW20, SMW17, SMW16 |
| Adjacent to CFR | SMW12, SMW13, TW2R, SMW11, SMW10, SMW14 | SMW12, SMW13, TW2R, SMW11, SMW10, SMW14 |

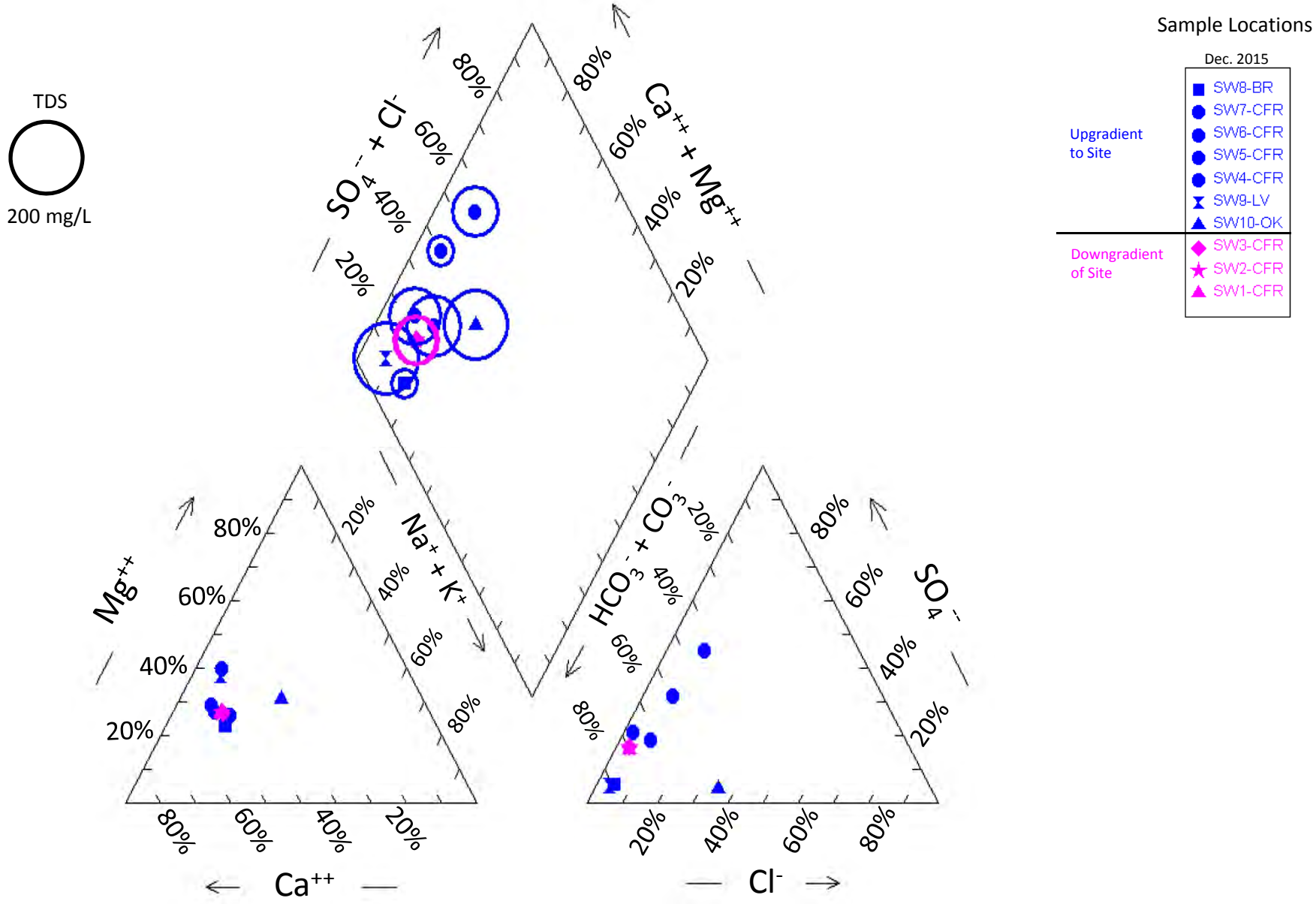
ASB – Aeration Stabilization Basin
CFR – Clark Fork River
LV - LaValle Creek

OK – Okeefe Creek
WWTS – Wastewater Treatment System

NewFields

Piper Diagram of December 2015 and June 2016 Groundwater Samples
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 6a

DRAFT (Version 1)




BR – Bitterroot River
CFR – Clark Fork River
LV - LaValle Creek

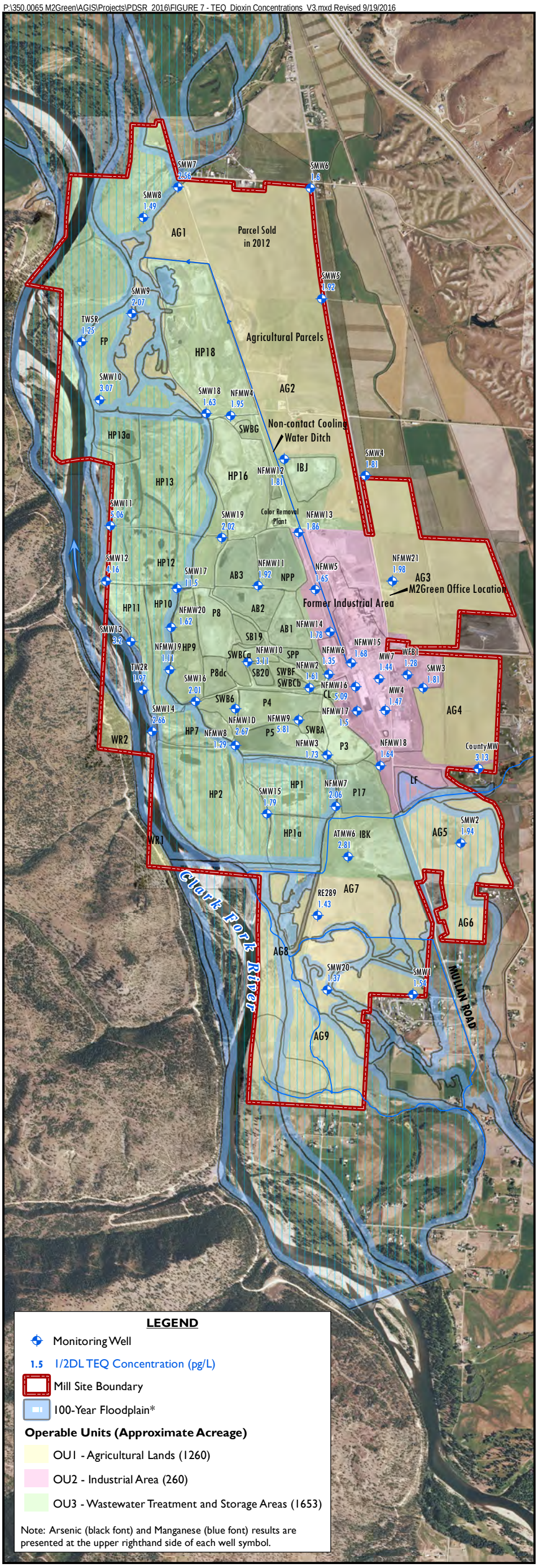
OK – Okeefe Creek
TDS – Total Dissolved Solids
mg/L – milligrams per liter

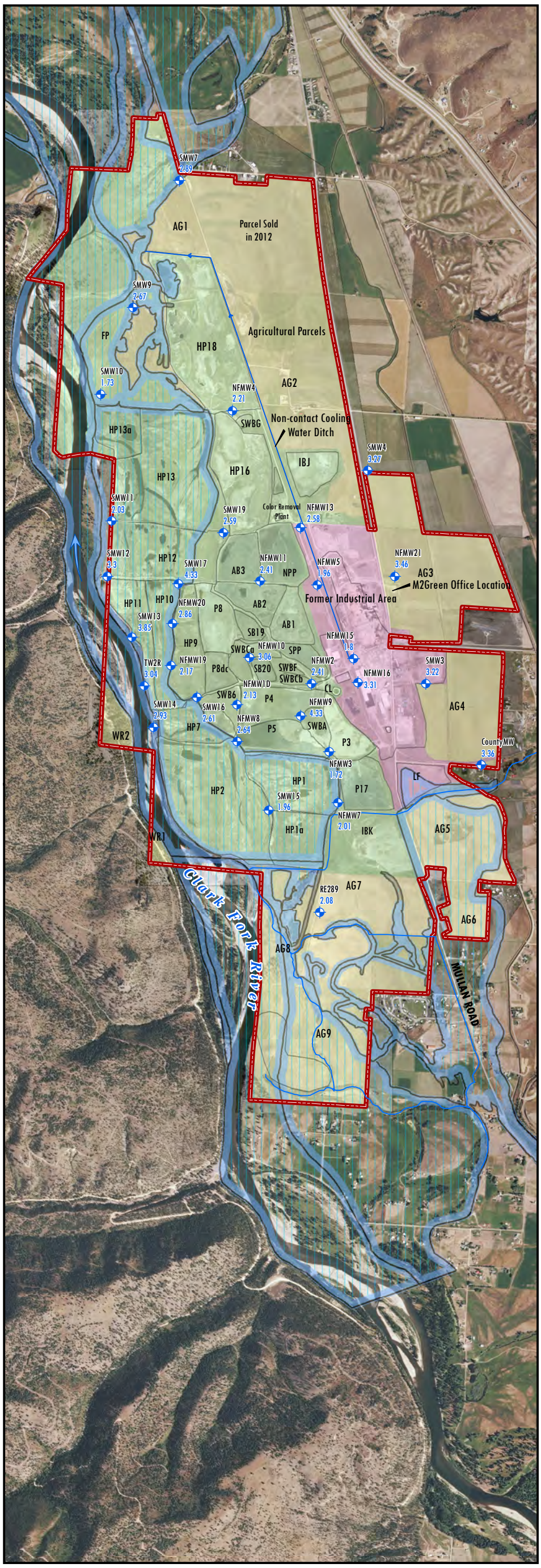
NewFields

Piper Diagram of December 2015
Surface Water Samples
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 6b

DRAFT (Version 1)

P:\350.0065 M2Green\AGIS\Projects\PDSR 2016\FIGURE 7 - TEQ Dioxin Concentrations V3.mxd Revised 9/19/2016




**LEGEND**

- Monitoring Well
- 1.5 1/2DL TEQ Concentration (pg/L)
- Mill Site Boundary
- 100-Year Floodplain*

**Operable Units (Approximate Acreage)**

- OU1 - Agricultural Lands (1260)
- OU2 - Industrial Area (260)
- OU3 - Wastewater Treatment and Storage Areas (1653)

Note: Arsenic (black font) and Manganese (blue font) results are presented at the upper righthand side of each well symbol.

**December 2015**

**June 2016**

N

0 Feet 2,500

NewFields

Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

*Floodplain Source:
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

**Notes**

AG - Agricultural Land
AB - Aeration Stabilization Basin
CFR - Clark Fork River
CL - Clarifier
FP - Flood Plain
HP - Holding or Storage Pond
IB - Rapid Infiltration Basin
TEQ - Toxic Equivalents

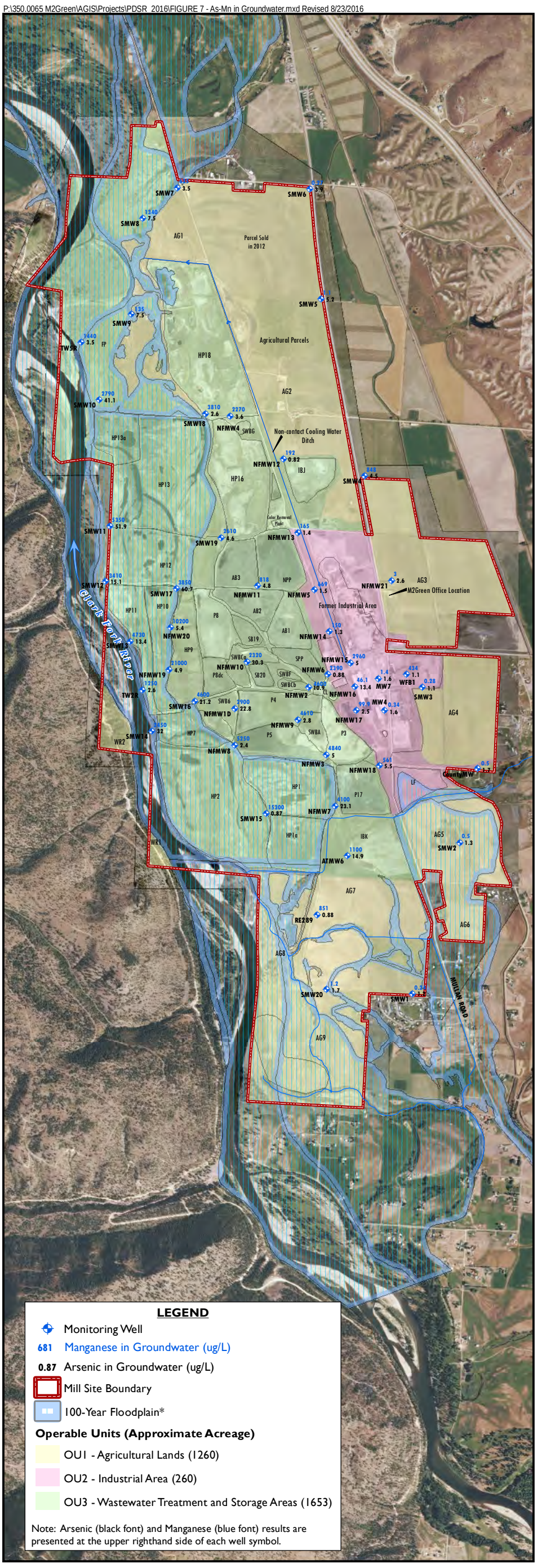
J - result is estimated
NPP - North Polishing Pond
P - Settling Pond
pg/L - picograms per liter
SB - Spoils Basin
SPP - South Polishing Pond
SWB - Solid Waste Basin
WR - West of River

1/2 DL - Half the detection limit was used for nondetect congener concentrations when calculating the TEQ.

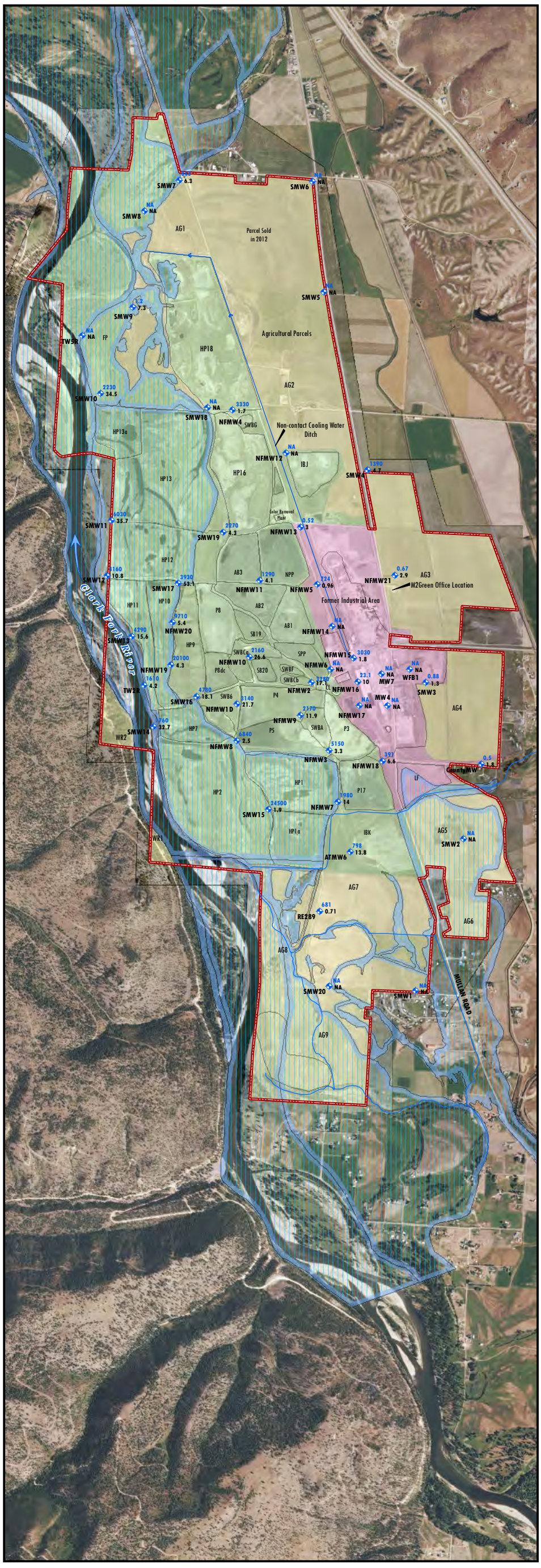
DRAFT (Version 1)

**TEQ Dioxin Concentrations in Groundwater**
**Former Frenchtown Mill Site**
**Missoula County, Montana**
**FIGURE 7**

P:\350.0065 M2Green\AGIS\Projects\PDSR_2016\FIGURE 7 - As-Mn in Groundwater.mxd Revised 8/23/2016




December 2015




June 2016

**Notes**

Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

*Floodplain Source:
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

AG - Agricultural Land
AB - Aeration Stabilization Basin
CFR - Clark Fork River
CL - Clarifier
FP - Flood Plain
HP - Holding or Storage Pond
IB - Rapid Infiltration Basin
ug/L - micrograms per liter

J - result is estimated
NA - Not Analyzed
NPP - North Polishing Pond
P - Settling Pond
SB - Spoils Basin
SPP - South Polishing Pond
SWB - Solid Waste Basin
WR - West of River

N

0 Feet 1,600

NewFields

Arsenic and Manganese Concentrations in Groundwater
Former Frenchtown Mill Site
Missoula County, Montana
FIGURE 8

DRAFT (Version 1)

# TABLES

**TABLE 1**
**Groundwater Monitoring Locations (May/June 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Well | Sample Date/Time | | Location ID | OU | Media Type | Collection Method | Sample Type | Zone | Sample Depth (ft btoc) | Sample Elevation ft amsl | TOC Elevation ft amsl | Surface Elevation ft amsl | Northing (Intl ft) | Easting (Intl ft) | Analytical Samples | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Dioxins | Metals | Ions | PCBs |
| CountyMW | 5/31/2016 | 16:05 | CountyMW | OU1 | GW | Grab | NM | OU3 | 33 | 3042.31 | 3075.60 | 3075.31 | 1022174.01 | 798973.62 | x | x | x | x |
| NFMW21 | 6/1/2016 | 10:45 | NFMW21 | OU1 | GW | Grab | NM | OU3 | 21 | 3043.65 | 3066.26 | 3064.65 | 1026509.48 | 796989.91 | x | x | x | |
| RE289 | 6/2/2016 | 12:55 | RE289 | OU1 | GW | Grab | NM | OU3 | 20 | 3038.13 | 3060.88 | 3058.13 | 1018794.20 | 795266.80 | x | x | x | |
| SMW1 | *6/9/2016* | *13:45* | SMW1 | OU1 | GW | WL | NM | OU3 | 20 | 3043.95 | 3067.79 | 3063.95 | 1016966.39 | 797469.77 | | | | |
| SMW2 | *6/9/2016* | *9:12* | SMW2 | OU1 | GW | WL | NM | OU3 | 18 | 3044.45 | 3066.14 | 3062.45 | 1020463.46 | 798565.41 | | | | |
| SMW20 | *6/9/2016* | *13:28* | SMW20 | OU1 | GW | WL | NM | OU3 | 18 | 3042.10 | 3063.72 | 3060.10 | 1017075.37 | 795484.95 | | | | |
| SMW3 | 6/1/2016 | 14:30 | SMW3 | OU1 | GW | Grab | NM | OU3 | 27 | 3041.84 | 3071.83 | 3068.84 | 1024040.83 | 797699.04 | x | x | x | |
| SMW4 | 6/1/2016 | 12:39 | SMW4 | OU1 | GW | Grab | NM | OU3 | 22 | 3038.01 | 3063.69 | 3060.01 | 1028933.35 | 796368.33 | x | x | x | |
| SMW5 | *6/9/2016* | *10:31* | SMW5 | OU1 | GW | WL | NM | OU3 | 16 | 3038.55 | 3057.52 | 3054.55 | 1033019.63 | 795358.05 | | | | |
| SMW6 | *6/9/2016* | *10:52* | SMW6 | OU1 | GW | WL | NM | OU3 | 23 | 3033.97 | 3058.18 | 3056.97 | 1035557.47 | 795101.25 | | | | |
| SMW7 | 6/1/2016 | 16:14 | SMW7 | OU1 | GW | Grab | NM | OU3 | 22 | 3028.92 | 3052.62 | 3050.92 | 1035586.80 | 792036.82 | x | x | x | |
| SMW9 | 6/2/2016 | 9:35 | SMW9 | OU1 | GW | Grab | NM | OU3 | 16 | 3021.27 | 3041.17 | 3037.27 | 1032665.53 | 790971.39 | x | x | x | |
| MW4 | *6/9/2016* | *14:41* | MW4 | OU2 | GW | WL | NM | OU3 | 25 | 3043.69 | 3070.66 | 3068.69 | 1023520.22 | 796823.99 | | | | |
| MW7 | *6/10/2016* | *11:04* | MW7 | OU2 | GW | WL | NM | OU3 | 24 | 3044.04 | 3070.20 | 3068.04 | 1024252.72 | 796682.41 | | | | |
| NFMW13 | 6/2/2016 | 14:15 | NFMW13 | OU2 | GW | Grab | NM | OU3 | 20 | 3043.32 | 3065.02 | 3063.32 | 1027623.14 | 794821.64 | x | x | x | x |
| NFMW14 | *6/10/2016* | *8:44* | NFMW14 | OU2 | GW | WL | NM | OU3 | 22 | 3043.81 | 3067.40 | 3065.81 | 1025334.36 | 795552.02 | | | | |
| NFMW15 | 6/3/2016 | 9:10 | NFMW15 | OU2 | GW | Grab | NM | OU3 | 21 | 3044.56 | 3067.32 | 3065.56 | 1024613.36 | 796041.18 | x | x | x | x |
| NFMW16 | 6/3/2016 | 10:15 | NFMW16 | OU2 | GW | Grab | NM | OU3 | 21.5 | 3044.24 | 3067.28 | 3065.74 | 1024072.02 | 796140.43 | x | x | x | x |
| NFMW17 | *6/10/2016* | *7:48* | NFMW17 | OU2 | GW | WL | NM | OU3 | 21 | 3044.12 | 3066.57 | 3065.12 | 1023512.22 | 796177.03 | | | | |
| NFMW18 | 6/3/2016 | 12:10 | NFMW18 | OU2 | GW | Grab | NM | OU3 | 21 | 3045.95 | 3068.50 | 3066.95 | 1022247.61 | 796704.95 | | x | x | |
| NFMW5 | 6/2/2016 | 15:45 | NFMW5 | OU2 | GW | Grab | NM | OU3 | 24 | 3041.65 | 3068.60 | 3065.65 | 1026303.90 | 795204.40 | x | x | x | x |
| NFMW6 | *6/10/2016* | *10:30* | NFMW6 | OU2 | GW | WL | NM | OU3 | 30 | 3040.79 | 3075.51 | 3070.79 | 1024350.34 | 795516.67 | | | | |
| ATMW6 | 6/2/2016 | 11:40 | ATMW6 | OU3 | GW | Grab | NM | OU3 | 21 | 3038.29 | 3062.55 | 3059.29 | 1020154.41 | 795963.64 | | x | x | |
| NFMW10 | 6/7/2016 | 15:30 | NFMW10 | OU3 | GW | Grab | NM | OU3 | 23 | 3040.43 | 3065.94 | 3063.43 | 1024636.57 | 793647.71 | x | x | x | x |
| NFMW11 | 6/7/2016 | 14:20 | NFMW11 | OU3 | GW | Grab | NM | OU3 | 30 | 3041.39 | 3073.25 | 3071.39 | 1026391.67 | 793892.61 | x | x | x | |
| NFMW12 | *6/9/2016* | *11:25* | NFMW12 | OU3 | GW | WL | NM | OU3 | 14 | 3040.03 | 3055.70 | 3054.03 | 1029321.83 | 794490.39 | | | | |
| NFMW19 | 6/7/2016 | 11:47 | NFMW19 | OU3 | GW | Grab | NM | OU3 | 14 | 3031.89 | 3047.97 | 3045.89 | 1024462.00 | 791850.71 | x | x | x | x |
| NFMW1D | 6/8/2016 | 9:20 | NFMW1D | OU3 | GW | Grab | NM | OU3 | 36 | 3028.49 | 3067.62 | 3064.49 | 1023564.38 | 793368.05 | x | x | x | |
| NFMW2 | 6/8/2016 | 12:00 | NFMW2 | OU3 | GW | Grab | NM | OU3 | 25 | 3037.30 | 3065.48 | 3062.30 | 1024043.31 | 795077.98 | x | x | x | x |
| NFMW20 | 6/7/2016 | 10:00 | NFMW20 | OU3 | GW | Grab | NM | OU3 | 9 | 3034.90 | 3045.83 | 3043.90 | 1025427.45 | 791884.65 | x | x | x | x |
| NFMW3 | 6/8/2016 | 14:50 | NFMW3 | OU3 | GW | Grab | NM | OU3 | 29 | 3042.13 | 3073.90 | 3071.13 | 1022489.50 | 795482.95 | x | x | x | |
| NFMW4 | 6/6/2016 | 15:55 | NFMW4 | OU3 | GW | Grab | NM | OU3 | 20 | 3037.41 | 3060.73 | 3057.41 | 1030314.50 | 793258.80 | x | x | x | |
| NFMW7 | 6/8/2016 | 16:10 | NFMW7 | OU3 | GW | Grab | NM | OU3 | 19 | 3041.83 | 3063.25 | 3060.83 | 1021306.25 | 795684.27 | x | x | x | |
| NFMW8 | 6/8/2016 | 10:20 | NFMW8 | OU3 | GW | Grab | NM | OU3 | 30 | 3039.24 | 3071.50 | 3069.24 | 1022709.05 | 793367.55 | x | x | x | |
| NFMW9 | 6/8/2016 | 13:10 | NFMW9 | OU3 | GW | Grab | NM | OU3 | 28 | 3041.81 | 3072.01 | 3069.81 | 1023296.51 | 794826.91 | x | x | x | |
| SMW10 | 6/3/2016 | 13:25 | SMW10 | OU3 | GW | Grab | NM | OU3 | 18 | 3021.24 | 3043.30 | 3039.24 | 1030690.22 | 790235.26 | x | x | x | |
| SMW11 | 6/3/2016 | 14:55 | SMW11 | OU3 | GW | Grab | NM | OU3 | 27 | 3024.31 | 3054.30 | 3051.31 | 1027774.19 | 790482.57 | x | x | x | |
| SMW12 | 6/6/2016 | 8:40 | SMW12 | OU3 | GW | Grab | NM | OU3 | 28 | 3023.75 | 3054.85 | 3051.75 | 1026505.31 | 790379.35 | x | x | x | |
| SMW13 | 6/6/2016 | 9:50 | SMW13 | OU3 | GW | Grab | NM | OU3 | 25 | 3029.90 | 3057.51 | 3054.90 | 1025109.18 | 790950.45 | x | x | x | |
| SMW14 | 6/6/2016 | 13:15 | SMW14 | OU3 | GW | Grab | NM | OU3 | 18 | 3027.26 | 3048.30 | 3045.26 | 1023035.72 | 791449.80 | x | x | x | |
| SMW15 | 6/6/2016 | 14:40 | SMW15 | OU3 | GW | Grab | NM | OU3 | 24 | 3037.88 | 3064.46 | 3061.88 | 1021134.39 | 794089.81 | x | x | x | |
| SMW16 | 6/7/2016 | 12:50 | SMW16 | OU3 | GW | Grab | NM | OU3 | 25 | 3033.00 | 3060.56 | 3058.00 | 1023728.05 | 792437.60 | x | x | x | |
| SMW17 | 6/6/2016 | 17:00 | SMW17 | OU3 | GW | Grab | NM | OU3 | 23 | 3032.66 | 3056.80 | 3055.66 | 1026324.27 | 792017.54 | x | x | x | |
| SMW18 | *6/10/2016* | *9:48* | SMW18 | OU3 | GW | WL | NM | OU3 | 25 | 3033.05 | 3061.62 | 3058.05 | 1030367.12 | 792692.05 | | | | |
| SMW19 | 6/7/2016 | 8:45 | SMW19 | OU3 | GW | Grab | NM | OU3 | 18 | 3033.80 | 3054.90 | 3051.80 | 1027504.00 | 793052.91 | x | x | x | |
| SMW8 | *6/9/2016* | *11:53* | SMW8 | OU3 | GW | WL | NM | OU3 | 10 | 3024.84 | 3038.68 | 3034.84 | 1034884.62 | 791239.26 | | | | |
| TW2R | 6/10/2016 | 11:40 | TW2R | OU3 | GW | Grab | NM | OU3 | 12.5 | 3034.03 | 3049.55 | 3046.53 | 1023988.38 | 791232.67 | x | x | x | |
| TW5R | *6/9/2016* | *12:15* | TW5R | OU3 | GW | WL | NM | OU3 | 11.5 | 3026.23 | 3040.90 | 3037.73 | 1032018.38 | 789819.97 | | | | |
| WFB1 | *6/9/2016* | *9:57* | WFB1 | OU3 | GW | WL | NM | OU3 | 20 | 3046.27 | 3065.86 | 3066.27 | 1024347.67 | 797333.83 | | | | |
| GWD1 (NFMW15) | 6/3/2016 | 9:10 | NFMW15 | OU2 | GW | Grab | DUP | OU3 | --- | 3065.56 | 3067.32 | 3065.56 | 1024613.36 | 796041.18 | x | x | x | x |
| GWD2 (SMW17) | 6/6/2016 | 17:00 | SMW17 | OU3 | GW | Grab | DUP | OU3 | --- | 3055.66 | 3056.80 | 3055.66 | 1026324.27 | 792017.54 | x | x | x | |

**Notes:**

--- - not applicable
amsl - Above mean sea Level
btoc - Below top of casing
DUP (NM) - duplicate sample (associated natural sample)
ft - feet
GW - Groundwater
Intl ft - Montana State Plane NAD 83 (international feet)

NM - Natural Media
OU - Operable Unit
PCB - polychlorinated biphenyls
TOC - total organic carbon
"Grab" - Water level, temperature, conductivity, pH, dissolved oxygen, and analytical samples were collected.
"WL" - Water Level, temperature, and conductivity were measured
*italic date/time - Analytical samples were not collected. Sample Date/Time represents the date and time that the water level, temperature, and conductivity were measured.*



DRAFT (Version 1)

**TABLE 2**
**Groundwater Elevations and Field Parameters* (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Sample Date | Sample Time | OU | Groundwater Elevation (ft amsl) | Static Water Level (ft BTOC) | Temperature (°C) | pH (su) | SC (uS/cm) | DO (mg/L) | ORP (mV) | Turbidity (NTU) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CountyMW | 4/15/2014 | 9:40 | OU1 | 3050.98 | 24.7 | 11.05 | 6.95 | 584 | 70.1 | 87.4 | --- |
| | 12/8/2015 | 9:00 | OU1 | 3052.57 | 24.70 | 11.64 | 7.04 | 446 | 3.96 | 17.4 | 0.54 |
| | 5/31/2016 | 16:05 | OU1 | 3051.47 | 24.13 | 13.4 | 6.89 | 494 | 7.61 | 122 | 0.93 |
| NFMW21 | 12/7/2015 | 16:05 | OU1 | 3049.39 | 15.26 | 11.84 | 7.49 | 427 | 3.93 | 125 | 1.79 |
| | 6/1/2016 | 10:45 | OU1 | 3047.65 | 18.61 | 11.6 | 7.44 | 372 | 7.26 | 145 | 2.52 |
| RE289 | 12/10/2015 | 9:05 | OU1 | 3046.61 | 11.52 | 12.41 | 6.89 | 350 | 0.29 | 171 | 22.1 |
| | 6/2/2016 | 12:55 | OU1 | 3048.86 | 12.02 | 11.4 | 6.87 | 343 | 1.3 | 60.2 | --- |
| SMW1 | 4/14/2014 | 15:02 | OU1 | 3050.85 | 16.94 | 12.77 | 7.37 | 359 | 56.4 | 54.6 | --- |
| | 12/7/2015 | 10:15 | OU1 | 3049.50 | 14.45 | 12.62 | 6.94 | 339 | 3.52 | 138 | 0.95 |
| | 6/9/2016 | 13:45 | OU1 | 3052.66 | 15.13 | 10.9 | --- | 347 | --- | --- | --- |
| SMW2 | 4/14/2014 | 11:38 | OU1 | 3051.19 | 14.95 | 7.6 | 7.6 | 177 | 7.25 | 98.8 | --- |
| | 12/7/2015 | 12:15 | OU1 | 3051.30 | 11.15 | 11.15 | 7.2 | 374 | 3.43 | 130 | 1.59 |
| | 6/9/2016 | 9:12 | OU1 | 3052.16 | 13.98 | 11.6 | --- | 366 | --- | --- | --- |
| SMW20 | 4/14/2014 | 16:05 | OU1 | 3049.39 | 14.33 | 9.29 | 7.16 | 392 | 4.71 | 38.5 | --- |
| | 12/9/2015 | 15:00 | OU1 | 3047.81 | 12.29 | 11.76 | 7.01 | 404 | 2.08 | 51.1 | 1.07 |
| | 6/9/2016 | 13:28 | OU1 | 3050.72 | 13.00 | 10.9 | --- | 352 | --- | --- | --- |
| SMW3 | 4/14/2014 | 11:55 | OU1 | 3049.38 | 22.45 | 10.21 | 7.21 | 407 | 6.6 | 52.4 | --- |
| | 12/7/2015 | 14:30 | OU1 | 3050.59 | 18.25 | 10.9 | 7.07 | 377 | 4.61 | 128 | 0.91 |
| | 6/1/2016 | 14:30 | OU1 | 3049.28 | 22.55 | 11.4 | 8.1 | 317 | 7.09 | 120 | 1.28 |
| SMW4 | 4/14/2014 | 18:10 | OU1 | 3046.84 | 16.85 | 6.81 | 7.32 | 543 | -1.2 | 18.6 | --- |
| | 12/8/2015 | 11:15 | OU1 | 3048.22 | 11.79 | 9.98 | 7.25 | 483 | 0.08 | 147 | 1.57 |
| | 6/1/2016 | 12:39 | OU1 | 3046.58 | 17.11 | 9.60 | 7.57 | 439 | 0.09 | 138 | 1.12 |
| SMW5 | 4/14/2014 | 12:12 | OU1 | 3042.00 | 15.52 | 8.88 | 7.5 | 497 | 6.51 | 71.7 | --- |
| | 12/8/2015 | 13:05 | OU1 | 3042.87 | 11.68 | 11.07 | 7.36 | 549 | 3.68 | 154 | 0.93 |
| | 6/9/2016 | 10:31 | OU1 | 3044.20 | 13.32 | 9.67 | --- | 462 | --- | --- | --- |
| SMW6 | 4/14/2014 | 12:22 | OU1 | 3037.72 | 20.46 | 9.74 | 7.48 | 525 | 6.71 | 59.1 | --- |
| | 12/8/2015 | 14:25 | OU1 | 3038.28 | 18.69 | 10.78 | 7.42 | 445 | 2.49 | 156 | 3.77 |
| | 6/9/2016 | 10:52 | OU1 | 3039.76 | 18.42 | 11.0 | --- | 441 | --- | --- | --- |
| SMW7 | 4/14/2014 | 12:40 | OU1 | 3033.40 | 19.22 | 9.86 | 7.39 | 596 | 6.1 | 38.2 | --- |
| | 6/1/2016 | 16:14 | OU1 | 3034.19 | 18.43 | 10.6 | 7.92 | 496 | 0.13 | -3.60 | 1.72 |
| SMW9 | 4/15/2014 | 11:00 | OU1 | 3030.37 | 10.89 | 7.63 | 7.34 | 2,106 | 13.9 | 63.5 | --- |
| | 6/2/2016 | 9:35 | OU1 | 3030.83 | 10.34 | 10.8 | 7.13 | 2,027 | 0.33 | 181 | 0.95 |
| MW1 | 4/15/2014 | 15:20 | OU2 | 3049.07 | 21.62 | 10.93 | 6.86 | 574 | 1.11 | 69.0 | --- |
| MW4 | 12/11/2015 | 11:40 | OU2 | 3049.58 | 19.11 | 12.15 | 7.01 | 395 | 3.88 | 108 | 4.89 |
| | 6/10/2016 | 14:41 | OU2 | 3048.90 | 21.76 | 10.8 | --- | 379 | --- | --- | --- |
| MW7 | 12/14/2015 | 9:05 | OU2 | 3049.57 | 18.47 | 12.6 | 6.69 | 532 | 2.17 | 153 | 2.7 |
| | 6/10/2016 | 11:04 | OU2 | 3048.59 | 21.61 | 11.0 | --- | 411 | --- | --- | --- |
| NFMW13 | 12/10/2015 | 10:25 | OU2 | 3048.41 | 14.91 | 11.55 | 7.29 | 598 | 1.25 | 1,783 | 3.28 |
| | 6/2/2016 | 14:15 | OU2 | 3048.13 | 16.89 | 13.4 | 7.44 | 480 | 7.03 | 83.4 | 2.05 |
| NFMW14 | 12/10/2015 | 14:15 | OU2 | 3048.65 | 17.16 | 11.78 | 7.77 | 469 | 4.95 | 57.6 | 5.05 |
| | 6/10/2016 | 8:44 | OU2 | 3047.59 | 19.81 | 11.7 | --- | 380 | --- | --- | --- |
| NFMW15 | 12/10/2015 | 16:20 | OU2 | 3048.92 | 16.64 | 12.79 | 6.88 | 900 | 0.17 | 23.4 | 6.15 |
| | 6/3/2016 | 9:10 | OU2 | 3047.62 | 19.70 | 11.1 | 6.46 | 625 | 0.33 | 61.9 | 3.23 |
| NFMW16 | 12/11/2015 | 8:35 | OU2 | 3049.24 | 16.50 | 10.93 | 9.08 | 891 | 0.2 | -153 | 11.4 |
| | 6/3/2016 | 10:15 | OU2 | 3048.06 | 19.22 | 10.8 | 8.94 | 729 | 0.33 | -219 | 7.32 |
| NFMW17 | 12/11/2015 | 10:15 | OU2 | 3049.26 | 15.86 | 12.79 | 7.06 | 432 | 2.76 | 68.4 | 2.54 |
| | 6/10/2016 | 7:48 | OU2 | 3048.29 | 18.28 | 11.5 | --- | 383 | --- | --- | --- |
| NFMW18 | 12/21/2015 | 10:00 | OU2 | 3050.32 | 16.63 | 9.52 | 6.63 | 411 | 1.21 | 0.500 | 23.5 |
| | 6/3/2016 | 12:10 | OU2 | 3049.80 | 18.70 | 10.2 | 6.95 | 455 | 1.66 | 46.8 | 10.83 |
| NFMW5 | 4/15/2014 | 12:30 | OU2 | 3047.70 | 20.95 | 9.9 | 7.38 | 480 | 13.3 | 4.20 | --- |
| | 6/2/2016 | 15:45 | OU2 | 3047.20 | 21.40 | 9.74 | 7.24 | 442 | 1.47 | -80.5 | 1.23 |
| NFMW6 | 4/15/2014 | 13:45 | OU2 | 3048.19 | 27.38 | 11.75 | 7.2 | 582 | 0.61 | -23.0 | --- |
| | 6/10/2016 | 10:30 | OU2 | 3047.66 | 27.85 | 12.0 | --- | 488 | --- | --- | --- |
| WFB1 | 12/21/2015 | 14:50 | OU2 | 3050.08 | 16.19 | 12.06 | 6.73 | 408 | 0.44 | -45.1 | 3.78 |

**TABLE 2**
**Groundwater Elevations and Field Parameters* (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Sample Date | Sample Time | OU | Groundwater Elevation (ft amsl) | Static Water Level (ft BTOC) | Temperature (°C) | pH (su) | SC (uS/cm) | DO (mg/L) | ORP (mV) | Turbidity (NTU) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ATMW6 | 4/14/2014 | 17:05 | OU3 | 3049.99 | 12.62 | 9.09 | 7.04 | 956 | 2.3 | -76.1 | --- |
| | 12/15/2015 | 16:25 | OU3 | 3047.89 | 11.40 | 11.33 | 7.16 | 795 | 0.31 | -109 | 15.3 |
| | 6/2/2016 | 11:40 | OU3 | 3049.37 | 13.18 | 10.6 | 7.28 | 599 | 0.07 | -202 | 11 |
| NFMW10 | 12/17/2015 | 11:25 | OU3 | 3047.20 | 16.23 | 12.07 | 7.56 | 2,342 | 0.47 | -138 | 9.17 |
| | 6/7/2016 | 15:30 | OU3 | 3046.33 | 19.61 | 14.0 | 7.73 | 2,301 | 0.11 | -199 | 4.1 |
| NFMW11 | 12/17/2015 | 9:25 | OU3 | 3046.93 | 24.46 | 10.91 | 7.55 | 1,207 | 0.66 | -112 | 12.7 |
| | 6/7/2016 | 14:20 | OU3 | 3045.82 | 27.43 | 14.5 | 7.35 | 1,346 | 0.26 | -168 | 3.44 |
| NFMW12 | 12/9/2015 | 12:35 | OU3 | 3046.73 | 7.30 | 12.26 | 7.35 | 482 | 0.14 | -116 | 1.52 |
| | 6/9/2016 | 11:25 | OU3 | 3046.48 | 9.22 | 8.43 | --- | 405 | --- | --- | --- |
| NFMW19 | 12/17/2015 | 15:05 | OU3 | 3038.74 | 7.15 | 9.16 | 6.8 | 4,439 | 0.54 | -99.0 | 1.79 |
| | 6/7/2016 | 11:47 | OU3 | 3040.27 | 7.70 | 10.9 | 7.2 | 4,292 | 0.03 | -138 | 2.73 |
| NFMW1D | 4/16/2014 | 10:50 | OU3 | 3045.20 | 27.5 | 12.48 | 7.03 | 3,503 | -0.2 | -69.0 | --- |
| | 12/18/2015 | 9:10 | OU3 | 3044.21 | 20.28 | 9.08 | 6.99 | 2,507 | 0.35 | -89.8 | 1.59 |
| | 6/8/2016 | 9:20 | OU3 | 3044.21 | 23.41 | 13.2 | 7.03 | 2,575 | 0.29 | -153 | 2.09 |
| NFMW1S | 4/16/2014 | 11:30 | OU3 | 3054.31 | 14.74 | 11.93 | 12.06 | 4,961 | -0.21 | -180 | --- |
| NFMW2 | 4/15/2014 | 14:25 | OU3 | 3047.54 | 18.3 | 11 | 6.91 | 685 | -0.12 | -42.7 | --- |
| | 12/18/2015 | 13:10 | OU3 | 3047.88 | 14.42 | 11.71 | 6.79 | 717 | 0.4 | -79.0 | 5.38 |
| | 6/8/2016 | 12:00 | OU3 | 3046.68 | 18.80 | 12.8 | 7.36 | 651 | 0.22 | -110 | 6.47 |
| NFMW20 | 12/17/2015 | 13:40 | OU3 | 3039.73 | 4.17 | 7.74 | 7.04 | 4,243 | 0.62 | -94.1 | 3.12 |
| | 6/7/2016 | 10:00 | OU3 | 3040.13 | 5.70 | 11.7 | 7.86 | 3,984 | 0.17 | -157 | 4.42 |
| NFMW3 | 4/16/2014 | 10:00 | OU3 | 3048.68 | 25.6 | 11.7 | 7.29 | 4,880 | -0.19 | -124 | --- |
| | 12/18/2015 | 11:10 | OU3 | 3048.15 | 22.98 | 11.25 | 6.96 | 4,537 | 0.38 | -132 | 8.18 |
| | 6/8/2016 | 14:50 | OU3 | 3047.12 | 26.78 | 14.4 | 7.68 | 4,611 | 0.36 | -186 | 4.73 |
| NFMW4 | 4/15/2014 | 11:45 | OU3 | 3044.12 | 16.8 | 8.32 | 6.94 | 1,403 | -1.2 | -39.1 | --- |
| | 12/16/2015 | 9:35 | OU3 | 3043.87 | 13.54 | 11.41 | 6.89 | 751 | 1.34 | -74.4 | 7.13 |
| | 6/6/2016 | 15:55 | OU3 | 3042.38 | 18.35 | 13.0 | 7.92 | 839 | 0.21 | -120 | 4.23 |
| NFMW5 | 12/10/2015 | 12:50 | OU3 | 3048.49 | 17.16 | 12.1 | 7.26 | 446 | 1.15 | -62.5 | 3.45 |
| NFMW6 | 12/18/2015 | 14:45 | OU3 | 3048.77 | 22.02 | 11.87 | 7.31 | 568 | 0.73 | -81.3 | -36 |
| NFMW7 | 12/9/2015 | 16:35 | OU3 | 3047.52 | 13.31 | 11.43 | 7.2 | 5,490 | 0.19 | -145 | 3.2 |
| | 6/8/2016 | 16:10 | OU3 | 3048.23 | 15.02 | 11.8 | 8.21 | 3,855 | 0.47 | -129 | 3.83 |
| NFMW8 | 12/17/2015 | 17:00 | OU3 | 3043.30 | 25.94 | 10.55 | 6.64 | 1,873 | 0.63 | -84.7 | 12.12 |
| | 6/8/2016 | 10:20 | OU3 | 3043.94 | 27.56 | 11.6 | 6.72 | 2,094 | 0.04 | -133 | 4.24 |
| NFMW9 | 12/21/2015 | 11:55 | OU3 | 3047.19 | 22.62 | 13.49 | 6.83 | 4,865 | 0.42 | -93.3 | 4.93 |
| | 6/8/2016 | 13:10 | OU3 | 3046.17 | 25.84 | 14.6 | 7.49 | 1,963 | 0.34 | -138 | 4.56 |
| SMW10 | 4/14/2014 | 13:12 | OU3 | 3033.10 | 10.2 | 9.67 | 7.49 | 2,027 | -0.05 | -102 | --- |
| | 12/14/2015 | 12:30 | OU3 | 3030.95 | 8.29 | 10.69 | 7.34 | 2,254 | 0.07 | 144 | 2.06 |
| | 6/3/2016 | 13:25 | OU3 | 3033.37 | 9.93 | 11.6 | 7.85 | 1,841 | 0.08 | -176 | 3.95 |
| SMW11 | 4/14/2014 | 13:44 | OU3 | 3035.87 | 18.43 | 10.28 | 7.46 | 2,738 | 1.7 | -93.4 | --- |
| | 12/14/2015 | 13:15 | OU3 | 3033.57 | 17.74 | 11.78 | 7.27 | 3,439 | 0.09 | -123 | 1.99 |
| | 6/3/2016 | 14:55 | OU3 | 3036.07 | 18.23 | 13.1 | 7.8 | 3,383 | 0.19 | -174 | 1.98 |
| SMW12 | 4/14/2014 | 14:00 | OU3 | 3036.06 | 18.79 | 10.73 | 7.6 | 3,483 | 3 | -132 | --- |
| | 12/14/2015 | 16:15 | OU3 | 3034.47 | 17.28 | 11.54 | 7.5 | 3,774 | 0.32 | -23.5 | 22.4 |
| | 6/6/2016 | 8:40 | OU3 | 3036.67 | 18.18 | 11.5 | 7.65 | 3,906 | 0.1 | -240 | 3.52 |
| SMW13 | 4/14/2014 | 14:21 | OU3 | 3037.92 | 19.59 | --- | --- | --- | --- | --- | --- |
| | 12/15/2015 | 9:00 | OU3 | 3035.26 | 19.64 | 10.26 | 7.25 | 2,873 | 0.3 | -111 | 3.48 |
| | 6/6/2016 | 9:50 | OU3 | 3038.66 | 18.85 | 10.5 | 7.63 | 2,820 | 0.03 | -153 | --- |
| SMW14 | 4/14/2014 | 14:27 | OU3 | 3039.59 | 8.71 | 10.27 | 7.31 | 2,929 | 2.3 | -38.6 | --- |
| | 12/15/2015 | 12:15 | OU3 | 3036.51 | 8.75 | 10.75 | 7.21 | 3,000 | 0.78 | -31.7 | 2.45 |
| | 6/6/2016 | 13:15 | OU3 | 3040.29 | 8.01 | 12.5 | 8.21 | 3,309 | 0.17 | -117 | 2.3 |
| SMW15 | 4/16/2014 | 9:10 | OU3 | 3045.57 | 19.97 | 8.73 | 5.86 | 3,014 | -0.4 | 114 | --- |
| | 12/15/2015 | 14:25 | OU3 | 3044.14 | 17.74 | 11.52 | 5.88 | 4,772 | 0.98 | 76.3 | 8.94 |
| | 6/6/2016 | 14:40 | OU3 | 3045.16 | 19.30 | 12.0 | 8.15 | 4,660 | 0.35 | -10.2 | 4.82 |
| SMW16 | 4/15/2014 | 13:55 | OU3 | 3043.33 | 17.7 | 9.8 | 7.06 | 3,391 | -0.13 | -31.4 | --- |
| | 12/16/2015 | 16:45 | OU3 | 3042.04 | 15.96 | 10.7 | 7.06 | 3,830 | 0.54 | -121 | 5.16 |
| | 6/7/2016 | 12:50 | OU3 | 3042.43 | 18.13 | 11.4 | 7.35 | 3,822 | 0.04 | -129 | 2.56 |

**TABLE 2**
**Groundwater Elevations and Field Parameters* (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Sample Date | Sample Time | OU | Groundwater Elevation (ft amsl) | Static Water Level (ft BTOC) | Temperature (°C) | pH (su) | SC (uS/cm) | DO (mg/L) | ORP (mV) | Turbidity (NTU) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SMW17 | 4/14/2014 | 14:12 | OU3 | 3041.64 | 15.16 | 10.4 | 7.43 | 2,241 | -0.01 | -120 | --- |
| | 12/16/2015 | 15:40 | OU3 | 3040.11 | 15.55 | 11.93 | 7.38 | 2,441 | 0.4 | -126 | 5.28 |
| | 6/6/2016 | 17:00 | OU3 | 3039.85 | 16.95 | 12.3 | 8.56 | 2,542 | 0.29 | -179 | --- |
| SMW18 | 4/14/2014 | 13:25 | OU3 | 3042.15 | 19.47 | 9.03 | 6.33 | 1,738 | 1.17 | 73.3 | --- |
| | 12/16/2015 | 11:40 | OU3 | 3042.07 | 15.98 | 11.86 | 6.66 | 2,138 | 1.62 | 13.1 | 11.51 |
| | 6/10/2016 | 9:48 | OU3 | 3041.82 | 19.80 | 10.4 | --- | 2,141 | --- | --- | --- |
| SMW19 | 4/14/2014 | 13:36 | OU3 | 3044.57 | 10.33 | 9.39 | 7.1 | 1,937 | 5.4 | -89.2 | --- |
| | 12/16/2015 | 14:00 | OU3 | 3044.24 | 7.56 | 10.93 | 7.27 | 2,033 | 0.38 | -131 | 3.28 |
| | 6/7/2016 | 8:45 | OU3 | 3043.51 | 11.39 | 12.5 | 7.54 | 2,024 | 0.16 | -187 | 2.72 |
| SMW21 | 4/14/2014 | 12:31 | OU3 | 3026.97 | 10.18 | 9.18 | 7.36 | 739 | 2 | 87.4 | --- |
| SMW7 | 12/8/2015 | 17:10 | OU3 | 3033.19 | 17.73 | 10.9 | 7.17 | 570 | 0.06 | -8.0 | 1.49 |
| SMW8 | 4/14/2014 | 12:50 | OU3 | 3028.79 | 9.89 | 7.12 | 7.34 | 449 | 1.2 | -39.1 | --- |
| | 12/9/2015 | 9:15 | OU3 | 3027.15 | 7.69 | 10.4 | 7 | 400 | 0.44 | -66.9 | 6.84 |
| | 6/9/2016 | 11:53 | OU3 | 3031.00 | 7.68 | 12.4 | --- | 262 | --- | --- | --- |
| SMW9 | 12/9/2015 | 10:50 | OU3 | 3028.57 | 8.70 | 10.1 | 7.32 | 2,109 | 2.31 | 57.4 | 5.52 |
| TW2R | 4/15/2014 | 18:30 | OU3 | 3038.36 | 12.1 | 8.47 | 7.53 | 2,578 | -1.2 | -76.0 | --- |
| | 12/15/2015 | 10:35 | OU3 | 3035.44 | 11.09 | 9.07 | 7.8 | 3,468 | 0.26 | -150 | 35.4 |
| | 6/6/2016 | 11:40 | OU3 | 3039.33 | 10.22 | 12.0 | 8.55 | 3,026 | 0.05 | -228 | 3.06 |
| TW5R | 4/14/2014 | 13:02 | OU3 | 3031.74 | 9.16 | 6.91 | 8.01 | 547 | 0.4 | -139 | --- |
| | 12/14/2015 | 10:50 | OU3 | 3029.14 | 8.59 | 9.14 | 7.49 | 2,032 | 0.06 | -175 | 9.24 |
| | 6/9/2016 | 12:15 | OU3 | 3032.43 | 8.47 | 10.9 | --- | 430 | --- | --- | --- |
| WFB1 | 12/21/2015 | 9:57 | OU3 | 3049.02 | 16.84 | 11.62 | --- | 363 | --- | --- | --- |

**Notes:**

°C - degrees Celsius
DO - dissolved oxygen
ft amsl - feet above mean sea level
ft BTOC - feet below top of casing
ID - identification
mg/L - milligrams per liter
mV - millivolts
**blue font** - June 2016 Sampling Event
--- - not measured
NTU - nephelometric turbidity units
ORP - oxidation reduction potential
OU - Operable Unit
SC - specific conductance
su standard units
uS/cm - micro Siemens per centimeter

*All field parameter data shown were measured after well purging using a Hanna Multi-Meter and Turbidity Meter.

**TABLE 3**
**Dioxin and Furan Concentrations (pg/L) in Groundwater (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample Identification | Sample Date | Type | OU | 2378-TCDD | 12378-PeCDD | 123478-HxCDD | 123789-HxCDD | 123678-HxCDD | 1234678-HpCDD | 12346789-OCDD | 2378-TCDF | 12378-PeCDF | 23478-PeCDF | 123478-HxCDF | 123789-HxCDF | 123678-HxCDF | 234678-HxCDF | 1234678-HpCDF | 1234789-HpCDF | 12346789-OCDF | Total TCDD | Total PeCDD | Total HxCDD | Total HpCDD | Total TCDF | Total PeCDF | Total HxCDF | Total HpCDF | TEQ 0DL | TEQ 1/2DL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CountyMW | 4/15/2014 | NM | OU1 | 0.45 U | 0.55 U | 0.74 U | 0.72 U | 0.82 U | 1.3 U | 2.14 U | 0.35 U | 1.47 J | 0.6 U | 0.49 U | 0.65 U | 1.27 J | 0.56 U | 1.17 J | 0.52 U | 0.74 U | 0.45 U | 0.55 U | 0.82 U | 1.3 U | 1.15 | 13 | 7.04 | 1.17 | 0.183 | 0.996 |
| | 12/8/2015 | NM | OU1 | 1.42 U | 2.13 U | 2.81 U | 2.59 U | 2.85 U | 3.2 U | 5.35 U | 1.56 U | 2.47 U | 2.37 U | 1.98 U | 2.47 U | 1.97 U | 2.09 U | 2.56 U | 3.66 U | 4.86 U | 1.42 U | 2.13 U | 2.85 U | 3.2 U | 1.56 U | 2.47 U | 2.47 U | 3.66 U | 0 U | 3.13 U |
| | 5/31/2016 | NM | OU1 | 1.32 U | 3 U | 3.52 U | 3.22 U | 3.71 U | 3.2 U | 5.57 U | 1.2 U | 1.74 U | 1.71 U | 1.33 U | 1.89 U | 1.38 U | 1.48 U | 1.51 U | 2.17 U | 4.22 U | 1.32 U | 3 U | 3.71 U | 3.2 U | 1.2 U | 1.74 U | 1.89 U | 2.17 U | 0 U | 3.36 U |
| NFMW21 | 12/7/2015 | NM | OU1 | 0.62 U | 1.62 U | 2.01 U | 1.89 U | 2.13 U | 1.6 U | 4.16 U | 1.11 U | 1.39 U | 1.41 U | 1.09 U | 1.46 U | 1.21 U | 1.2 U | 1.48 U | 2.03 U | 2.28 U | 0.62 U | 1.62 U | 2.13 U | 1.6 U | 1.11 U | 1.41 U | 1.46 U | 2.03 U | 0 U | 1.98 U |
| | 6/1/2016 | NM | OU1 | 1.7 U | 2.7 U | 3.89 U | 3.51 U | 4 U | 2.8 U | 4.54 U | 1.33 U | 1.57 U | 1.62 U | 1.35 U | 2.09 U | 1.45 U | 1.59 U | 1.34 U | 2.08 U | 3.93 U | 1.7 U | 2.7 U | 4 U | 2.8 U | 1.33 U | 1.62 U | 2.09 U | 2.08 U | 0 U | 3.46 U |
| RE289 | 12/10/2015 | NM | OU1 | 0.53 U | 1.1 U | 1.45 U | 1.39 U | 1.58 U | 2.9 | 19.8 | 0.81 U | 0.8 U | 0.81 U | 0.78 U | 1.02 U | 0.82 U | 0.83 U | 1.06 U | 1.59 U | 1.52 U | 0.53 U | 1.1 U | 1.58 U | 5.9 | 0.81 U | 0.81 U | 1.02 U | 1.59 U | 0.035 | 1.43 |
| | 6/2/2016 | NM | OU1 | 0.74 U | 1.7 U | 2.36 U | 2.26 U | 2.41 U | 2.6 U | 7.98 J | 0.87 U | 1.25 U | 1.35 U | 0.9 U | 1.38 U | 0.96 U | 1.04 U | 1.26 U | 2.02 U | 2.85 U | 0.74 U | 1.7 U | 2.41 U | 2.6 U | 0.87 U | 1.35 U | 1.38 U | 2.02 U | 0.002 | 2.08 |
| SMW1 | 12/7/2015 | NM | OU1 | 0.5 U | 1.06 U | 2 U | 1.89 U | 2.13 U | 2.3 U | 4.23 U | 0.85 U | 0.9 U | 1.01 U | 0.98 U | 1.36 U | 1.02 U | 1.06 U | 1.08 U | 1.64 U | 2.35 U | 0.5 U | 1.06 U | 2.13 U | 2.3 U | 0.85 U | 1.01 U | 1.36 U | 1.64 U | 0 U | 1.54 U |
| SMW2 | 12/7/2015 | NM | OU1 | 0.68 U | 1.46 U | 2.32 U | 2.18 U | 2.45 U | 2.2 U | 3.9 U | 1.01 U | 1.36 U | 1.46 U | 0.9 U | 1.18 U | 0.96 U | 1.02 U | 1.07 U | 1.7 U | 2.79 U | 0.68 U | 1.46 U | 2.45 U | 2.2 U | 1.01 U | 1.46 U | 1.18 U | 1.7 U | 0 U | 1.94 U |
| SMW20 | 4/14/2014 | NM | OU1 | 0.48 U | 0.56 U | 0.9 U | 0.86 U | 0.98 U | 1.6 U | 2.3 U | 0.43 U | 1.62 J | 0.89 U | 0.68 U | 0.86 U | 1.63 J | 0.75 U | 1.55 J | 0.72 U | 1.22 U | 0.48 U | 0.56 U | 0.98 U | 1.6 U | 9.63 | 18.2 | 10.6 | 1.55 | 0.227 | 1.16 |
| | 12/9/2015 | NM | OU1 | 0.59 U | 0.96 U | 1.49 U | 1.39 U | 1.55 U | 1.1 U | 3.17 U | 0.63 U | 1.08 U | 1.14 U | 0.62 U | 0.84 U | 0.66 U | 0.74 U | 0.86 U | 1.24 U | 1.88 U | 0.59 U | 0.96 U | 1.55 U | 1.1 U | 0.63 U | 1.14 U | 0.84 U | 1.24 U | 0 U | 1.37 U |
| SMW3 | 12/7/2015 | NM | OU1 | 0.76 U | 1.45 U | 1.6 U | 1.46 U | 1.6 U | 2 U | 4.05 U | 0.95 U | 1.41 U | 1.51 U | 0.69 U | 0.91 U | 0.72 U | 0.73 U | 1.14 U | 1.7 U | 3.26 U | 0.76 U | 1.45 U | 1.6 U | 2 U | 0.95 U | 1.51 U | 0.91 U | 1.7 U | 0 U | 1.81 U |
| | 6/1/2016 | NM | OU1 | 1.76 U | 2.53 U | 3.08 U | 2.89 U | 3.4 U | 3.1 U | 6.83 U | 1.15 U | 1.49 U | 1.57 U | 1.07 U | 1.65 U | 1.16 U | 1.27 U | 1.27 U | 2.02 U | 3.27 U | 1.76 U | 2.53 U | 3.4 U | 3.1 U | 1.15 U | 1.57 U | 1.65 U | 2.02 U | 0 U | 3.22 U |
| SMW4 | 4/14/2014 | NM | OU1 | 0.48 U | 0.58 U | 0.68 U | 0.66 U | 0.76 U | 1.4 U | 2.47 U | 0.56 U | 0.67 U | 0.82 U | 0.69 U | 0.91 U | 0.77 U | 0.85 U | 0.71 U | 0.9 U | 1.15 U | 0.48 U | 0.58 U | 0.76 U | 1.4 U | 0.56 U | 3.47 | 2.55 | 0.9 U | 0 U | 0.971 U |
| | 12/8/2015 | NM | OU1 | 0.68 U | 1.45 U | 1.59 U | 1.49 U | 1.66 U | 1.9 U | 5.22 U | 0.9 U | 1.03 U | 1.03 U | 1.29 U | 1.63 U | 1.27 U | 1.26 U | 1.22 U | 1.62 U | 2.41 U | 0.68 U | 1.45 U | 1.66 U | 1.9 U | 0.9 U | 1.03 U | 1.63 U | 1.62 U | 0 U | 1.81 U |
| | 6/1/2016 | NM | OU1 | 1.65 U | 2.59 U | 3.29 U | 2.96 U | 3.36 U | 3.1 U | 4.58 U | 1.18 U | 1.63 U | 1.73 U | 1.23 U | 1.87 U | 1.35 U | 1.44 U | 1.31 U | 1.93 U | 3.93 U | 1.65 U | 2.59 U | 3.36 U | 3.1 U | 1.18 U | 1.73 U | 1.87 U | 1.93 U | 0 U | 3.27 U |
| SMW5 | 12/8/2015 | NM | OU1 | 0.77 U | 1.48 U | 1.96 U | 1.78 U | 1.94 U | 2.6 U | 5.45 U | 0.94 U | 1.37 U | 1.44 U | 0.87 U | 1.18 U | 0.88 U | 0.96 U | 1.07 U | 1.46 U | 3.11 U | 0.77 U | 1.48 U | 1.96 U | 2.6 U | 0.94 U | 1.44 U | 1.18 U | 1.46 U | 0 U | 1.92 U |
| SMW6 | 12/8/2015 | NM | OU1 | 0.7 U | 1.22 U | 1.51 U | 1.41 U | 1.56 U | 2.1 U | 4.64 U | 0.92 U | 0.99 U | 1.01 U | 0.82 U | 1.04 U | 0.86 U | 0.88 U | 1.49 U | 1.96 U | 2.63 U | 0.7 U | 1.22 U | 1.56 U | 2.1 U | 0.92 U | 1.01 U | 1.04 U | 1.96 U | 0 U | 1.60 U |
| SMW7 | 12/8/2015 | NM | OU1 | 1.11 U | 1.9 U | 2.65 U | 2.47 U | 2.74 U | 2.4 U | 4.26 U | 1.28 U | 1.63 U | 1.61 U | 1.34 U | 1.8 U | 1.46 U | 1.45 U | 1.53 U | 2.16 U | 2.99 U | 1.11 U | 1.9 U | 2.74 U | 2.4 U | 1.28 U | 1.63 U | 1.8 U | 2.16 U | 0 U | 2.56 U |
| | 6/1/2016 | NM | OU1 | 1.34 U | 2.24 U | 3.2 U | 2.9 U | 3.31 U | 2.8 U | 4.73 U | 1.05 U | 1.59 U | 1.66 U | 1.09 U | 1.81 U | 1.2 U | 1.3 U | 1.22 U | 2.04 U | 4.12 U | 1.34 U | 2.24 U | 3.31 U | 2.8 U | 1.05 U | 1.66 U | 1.81 U | 2.04 U | 0 U | 2.89 U |
| SMW9 | 4/15/2014 | NM | OU1 | 0.65 U | 0.75 U | 0.79 U | 0.74 U | 0.81 U | 6 J | 39.3 J | 0.35 U | 0.44 U | 0.53 U | 0.69 U | 0.89 U | 0.72 U | 0.76 U | 0.88 U | 1.12 U | 1.24 U | 0.65 U | 0.75 U | 3.2 | 13 | 0.35 U | 0.53 U | 0.89 U | 1.12 U | 0.071 | 1.16 |
| | 12/9/2015 | NM | OU1 | 0.64 U | 1.69 U | 2.65 U | 2.4 U | 2.58 U | 7.1 | 52.3 | 0.95 U | 0.92 U | 0.93 U | 0.96 U | 1.29 U | 1.05 U | 1.13 U | 1.18 U | 1.74 U | 2.65 U | 0.64 U | 1.69 U | 2.65 U | 15 | 0.95 U | 0.93 U | 1.29 U | 1.74 U | 0.087 | 2.07 |
| | 6/2/2016 | NM | OU1 | 1.08 U | 1.91 U | 2.69 U | 2.49 U | 2.6 U | 4.6 U | 12.9 J | 0.97 U | 1.49 U | 1.58 U | 1.79 U | 2.84 U | 1.92 U | 2.06 U | 1.55 U | 2.58 U | 4.04 U | 1.08 U | 1.91 U | 2.69 U | 4.6 U | 0.97 U | 1.58 U | 2.84 U | 2.58 U | 0.004 | 2.67 |
| MW1 | 4/15/2014 | NM | OU2 | 0.45 U | 0.57 U | 0.75 U | 0.68 U | 0.74 U | 1.1 U | 2.14 U | 0.33 U | 1.09 J | 0.64 U | 0.53 U | 0.69 U | 1.32 J | 0.6 U | 0.88 U | 0.75 U | 1.06 U | 0.45 U | 0.57 U | 0.75 U | 1.1 U | 5.99 | 12.7 | 6.51 | 0.88 U | 0.165 | 0.999 |
| MW4 | 12/11/2015 | NM | OU2 | 0.64 U | 1.24 U | 1.58 U | 1.52 U | 1.75 U | 1.3 U | 3.73 U | 0.68 U | 0.74 U | 0.86 U | 0.8 U | 1.04 U | 0.82 U | 0.84 U | 0.94 U | 1.4 U | 2.86 U | 0.64 U | 1.24 U | 1.75 U | 1.3 U | 0.68 U | 0.86 U | 1.04 U | 1.4 U | 0 U | 1.47 U |
| MW7 | 12/14/2015 | NM | OU2 | 0.62 U | 1.08 U | 1.42 U | 1.31 U | 1.44 U | 1.4 U | 3.33 U | 0.61 U | 0.78 U | 0.94 U | 0.85 U | 1.11 U | 0.86 U | 0.9 U | 0.85 U | 1.34 U | 3.5 U | 0.62 U | 1.08 U | 1.44 U | 1.4 U | 0.61 U | 0.94 U | 1.11 U | 1.34 U | 0 U | 1.44 U |
| NFMW13 | 12/10/2015 | NM | OU2 | 0.65 U | 1.13 U | 2.19 U | 2.04 U | 2.26 U | 2.7 U | 4.7 U | 1.24 U | 1.44 U | 1.49 U | 1.34 U | 1.85 U | 1.38 U | 1.56 U | 1.3 U | 1.82 U | 4.22 U | 0.65 U | 1.13 U | 2.26 U | 2.7 U | 1.24 U | 1.49 U | 1.85 U | 1.82 U | 0 U | 1.86 U |
| | 6/2/2016 | NM | OU2 | 0.86 U | 1.69 U | 2.95 U | 2.81 U | 3 U | 2.9 U | 5.23 U | 0.93 U | 1.49 U | 1.53 U | 2.17 U | 3.4 U | 2.33 U | 2.47 U | 2.15 U | 3.62 U | 4.92 U | 0.86 U | 1.69 U | 3 U | 2.9 U | 0.93 U | 1.53 U | 3.4 U | 3.62 U | 0 U | 2.58 U |
| NFMW14 | 12/10/2015 | NM | OU2 | 0.58 U | 1.58 U | 1.72 U | 1.64 U | 1.85 U | 2.2 U | 3.62 U | 0.8 U | 1.12 U | 1.13 U | 0.85 U | 1.15 U | 0.9 U | 0.92 U | 1.09 U | 1.46 U | 2.21 U | 0.58 U | 1.58 U | 1.85 U | 2.2 U | 0.8 U | 1.13 U | 1.15 U | 1.46 U | 0 U | 1.78 U |
| NFMW15 | 12/10/2015 | NM | OU2 | 0.59 U | 1.12 U | 1.81 U | 1.7 U | 1.9 U | 5.4 | 29.6 | 0.77 U | 1.31 U | 1.5 U | 0.82 U | 1.06 U | 0.84 U | 0.89 U | 1.94 U | 2.7 U | 2.48 U | 0.59 U | 1.12 U | 6.42 | 11 | 2.7 | 1.5 U | 1.06 U | 2.7 U | 0.063 | 1.68 |
| | 6/3/2016 | NM | OU2 | 0.48 U | 1.44 U | 1.8 U | 1.64 U | 1.69 U | 5.9 J | 22.9 J | 0.49 U | 1.26 U | 1.23 U | 1.1 U | 1.91 U | 1.14 U | 1.26 U | 1.18 U | 2.14 U | 2.99 U | 0.48 U | 1.44 U | 6.84 J | 12 J | 1.8 J | 1.26 U | 1.91 U | 2.14 U | 0.066 | 1.80 |
| NFMW16 | 12/11/2015 | NM | OU2 | 2.58 | 1.31 U | 2.02 U | 1.89 U | 2.12 U | 23 | 216 | 6.12 | 1.4 U | 1.49 U | 1.65 U | 2.32 U | 1.71 U | 1.82 U | 2.31 U | 3.39 U | 3.6 U | 2.58 | 1.31 U | 4.86 | 42 | 16.2 | 1.49 U | 2.32 U | 3.39 U | 3.49 | 5.09 |
| | 6/3/2016 | NM | OU2 | 1.63 J | 1.04 U | 2.03 U | 1.94 U | 2.07 U | 7 J | 47.1 J | 3.3 J | 1.09 U | 1.13 U | 0.95 U | 1.6 U | 1.01 U | 1.11 U | 1.48 U | 2.53 U | 3.05 U | 1.63 J | 1.04 U | 2.07 U | 13 J | 9.06 | 1.13 U | 1.6 U | 2.53 U | 2.04 | 3.31 |
| NFMW17 | 12/11/2015 | NM | OU2 | 0.7 U | 0.99 U | 1.78 U | 1.68 U | 1.9 U | 1.7 U | 3.22 U | 0.75 U | 0.93 U | 1.03 U | 0.72 U | 0.98 U | 0.78 U | 0.8 U | 1.1 U | 1.68 U | 2.74 U | 0.7 U | 0.99 U | 1.9 U | 1.7 U | 0.75 U | 1.03 U | 0.98 U | 1.68 U | 0 U | 1.50 U |
| NFMW18 | 12/21/2015 | NM | OU2 | 0.77 U | 1.29 U | 1.21 U | 1.1 U | 1.19 U | 4 | 21.3 J | 0.85 U | 0.71 U | 0.73 U | 0.85 U | 1.49 U | 0.86 U | 0.98 U | 1.44 U | 2.47 U | 3.06 U | 0.77 U | 1.29 U | 2.19 U | 8.2 | 0.85 U | 0.73 U | 1.49 U | 2.47 U | 0.047 | 1.64 |
| NFMW5 | 4/15/2014 | NM | OU2 | 0.57 U | 0.61 U | 0.77 U | 0.73 U | 0.82 U | 2.1 J | 9.37 J | 0.26 U | 0.44 U | 0.52 U | 0.67 U | 0.84 U | 0.68 U | 0.75 U | 0.59 U | 0.73 U | 1.09 U | 0.57 U | 0.61 U | 2.05 | 4.7 | 0.26 U | 0.52 U | 0.84 U | 0.73 U | 0.024 | 0.983 |
| | 12/10/2015 | NM | OU2 | 0.66 U | 1.22 U | 1.63 U | 1.5 U | 1.64 U | 2.2 U | 6.73 | 1 U | 0.9 U | 0.99 U | 1.09 U | 1.42 U | 1.12 U | 1.13 U | 1.25 U | 1.79 U | 2.15 U | 0.66 U | 1.22 U | 1.64 U | 2.2 U | 1 U | 0.99 U | 1.42 U | 1.79 U | 0.002 | 1.65 |
| | 6/2/2016 | NM | OU2 | 0.71 U | 1.18 U | 2.91 U | 2.77 U | 2.97 U | 2.5 U | 6.64 U | 0.97 U | 1.19 U | 1.12 U | 1.3 U | 2.09 U | 1.37 U | 1.47 U | 1.46 U | 2.45 U | 4.48 U | 0.71 U | 1.18 U | 2.97 U | 2.5 U | 0.97 U | 1.19 U | 2.09 U | 2.45 U | 0 U | 1.96 U |
| NFMW6 | 4/15/2014 | NM | OU2 | 0.56 U | 0.63 U | 0.96 U | 0.89 U | 0.98 U | 1.3 U | 16.9 J | 0.26 U | 0.37 U | 0.44 U | 0.51 U | 0.66 U | 0.53 U | 0.56 U | 0.5 U | 0.64 U | 0.92 U | 0.56 U | 0.63 U | 0.98 U | 2.8 | 0.26 U | 0.44 U | 0.66 U | 0.64 U | 0.005 | 0.955 |
| | 12/18/2015 | NM | OU2 | 0.63 U | 0.88 U | 1.5 U | 1.43 U | 1.61 U | 4.5 | 61.3 J | 0.54 U | 0.7 U | 0.73 U | 0.6 U | 0.93 U | 0.61 U | 0.69 U | 1.3 U | 2.01 U | 2.94 U | 0.63 U | 0.88 U | 4.84 | 11 | 0.54 U | 0.73 U | 1.73 U | 2.01 U | 0.063 | 1.35 |
| ATMW6 | 4/14/2014 | NM | OU3 | 0.74 U | 0.77 U | 0.95 U | 0.88 U | 0.98 U | 5.6 J | 27.7 J | 1.37 J | 1.64 J | 0.65 U | 0.54 U | 0.7 U | 1.32 J | 0.61 U | 1.45 J | 0.55 U | 1.45 U | 0.74 U | 0.77 U | 4.61 | 11 | 12.2 | 16.5 | 9.58 | 1.45 | 0.397 | 1.48 |
| | 12/15/2015 | NM | OU3 | 0.98 U | 1.88 U | 2.44 U | 2.27 U | 2.5 U | 11 | 66.5 | 3.37 | 1.87 U | 2.1 U | 0.77 U | 1.14 U | 0.84 U | 0.91 U | 1.81 U | 2.8 U | 5.35 U | 0.98 U | 1.88 U | 9.79 | 23 | 7.05 | 2.1 U | 3.13 | 2.8 U | 0.471 | 2.81 |
| NFMW10 | 12/17/2015 | NM | OU3 | 1.11 U | 1.83 U | 3.23 U | 3.05 U | 3.44 U | 11 | 62.5 J | 2.05 | 1.71 U | 1.7 U | 2.13 U | 3.05 U | 2.28 U | 2.51 U | 3.15 | 1.41 U | 8.99 | 2 | 1.83 U | 14.7 | 23 | 2.05 | 1.71 U | 3.05 U | 9.53 | 0.369 | 3.11 |
| | 6/7/2016 | NM | OU3 | 1.06 U | 2 U | 3.1 U | 2.96 U | 3.15 U | 6.9 J | 37.2 J | 1.1 U | 2.01 U | 2.01 U | 2.43 U | 3.81 U | 2.32 U | 2.81 U | 2.61 U | 4.35 U | 4.06 U | 1.06 U | 2 U | 5.63 J | 14 J | 1.1 U | 2.01 U | 3.81 U | 4.35 U | 0.080 | 3.06 |
| NFMW11 | 12/17/2015 | NM | OU3 | 0.81 U | 1.17 U | 1.65 U | 1.54 U | 2.87 | 6.4 | 32.2 J | 0.77 U | 1 U | 1.01 U | 0.79 U | 1.16 U | 0.89 U | 0.93 U | 1.32 U | 2.15 U | 2.38 U | 0.81 U | 1.17 U | 13.8 | 14 | 0.99 | 1.01 U | 1.16 U | 2.15 U | 0.361 | 1.92 |
| | 6/7/2016 | NM | OU3 | 1.1 U | 1.46 U | 2.07 U | 1.94 U | 2.04 U | 4.9 J | 19.9 J | 1.02 U | 1.52 U | 1.71 U | 1.72 U | 2.62 U | 1.95 U | 1.99 U | 2.24 U | 3.36 U | 3.14 U | 1.1 U | 1.46 U | 7.91 J | 9.8 J | 1.02 U | 1.71 U | 2.62 U | 3.36 U | 0.055 | 2.41 |
| NFMW12 | 12/9/2015 | NM | OU3 | 0.82 U | 1.36 U | 1.93 U | 1.79 U | 1.98 U | 1.4 U | 3.62 U | 0.84 U | 0.94 U | 0.98 U | 0.95 U | 1.35 U | 0.98 U | 1.07 U | 1.06 U | 1.56 U | 2.26 U | 0.82 U | 1.36 U | 1.98 U | 1.4 U | 0.84 U | 0.98 U | 1.35 U | 1.56 U | 0 U | 1.81 U |
| NFMW19 | 12/17/2015 | NM | OU3 | 0.56 U | 0.73 U | 1.45 U | 1.31 U | 1.41 U | 1.1 U | 4.88 U | 0.41 U | 0.66 U | 0.67 U | 0.52 U | 0.68 U | 0.54 U | 0.54 U | 0.78 U | 1.19 U | 1.42 U | 0.56 U | 0.73 U | 1.45 U | 1.1 U | 0.41 U | 0.67 U | 0.68 U | 1.19 U | 0 U | 1.11 U |
| | 6/7/2016 | NM | OU3 | 0.8 U | 1.54 U | 2.49 U | 2.36 U | 2.5 U | 2.7 U | 5.85 U | 0.88 U | 1.28 U | 1.34 U | 1.47 U | 2.09 U | 1.52 U | 1.61 U | 1.25 U | 1.99 U | 3.34 U | 0.8 U | 1.54 U | 2.5 U | 2.7 U | 0.88 U | 1.34 U | 2.09 U | 1.99 U | 0 U | 2.17 U |



DRAFT (Version 1)

**TABLE 3**
**Dioxin and Furan Concentrations (pg/L) in Groundwater (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample Identification | Sample Date | Type | OU | 2378-TCDD | 12378-PeCDD | 123478-HxCDD | 123789-HxCDD | 123678-HxCDD | 1234678-HpCDD | 12346789-OCDD | 2378-TCDF | 12378-PeCDF | 23478-PeCDF | 123478-HxCDF | 123789-HxCDF | 123678-HxCDF | 234678-HxCDF | 1234678-HpCDF | 1234789-HpCDF | 12346789-OCDF | Total TCDD | Total PeCDD | Total HxCDD | Total HpCDD | Total TCDF | Total PeCDF | Total HxCDF | Total HpCDF | TEQ 0DL | TEQ 1/2DL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NFMW1D | 4/16/2014 | NM | OU3 | 0.55 U | 0.64 U | 0.88 U | 0.83 U | 0.92 U | 1.8 U | 5.78 J | 0.66 U | 0.57 U | 0.71 U | 0.55 U | 0.7 U | 0.58 U | 0.6 U | 0.78 U | 0.98 U | 1.09 U | 0.55 U | 0.64 U | 0.92 U | 1.8 U | 0.66 U | 0.71 U | 0.7 U | 0.98 U | 0.002 | 1.02 |
| | 12/18/2015 | NM | OU3 | 1 U | 1.56 U | 3.06 U | 2.87 U | 3.21 U | 3.7 | 18 J | 3.27 | 1.62 U | 1.86 U | 0.97 U | 1.66 U | 0.99 U | 1.17 U | 1.41 U | 2.38 U | 3.54 U | 1 U | 1.56 U | 3.21 U | 8.3 | 14 | 1.86 U | 1.66 U | 2.38 U | 0.370 | 2.67 |
| | 6/8/2016 | NM | OU3 | 0.61 U | 1.55 U | 2.82 U | 2.68 U | 2.85 U | 4.8 U | 14.2 J | 1.41 J | 1.25 U | 1.21 U | 1.02 U | 1.58 U | 1.07 U | 1.18 U | 1.72 U | 2.98 U | 4.19 U | 0.61 U | 1.55 U | 2.85 U | 4.8 U | 5.6 | 1.25 U | 1.58 U | 2.98 U | 0.145 | 2.13 |
| NFMW1S | 4/16/2014 | NM | OU3 | 0.66 U | 0.99 U | 0.92 U | 0.87 U | 0.99 U | 13 J | 124 | 0.5 U | 1.52 J | 0.87 U | 0.67 U | 0.82 U | 1.48 J | 0.76 U | 2.92 J | 0.78 U | 2.54 U | 0.66 U | 0.99 U | 5.89 | 28 | 7.06 | 15.1 | 11.1 | 7.15 | 0.388 | 1.62 |
| NFMW2 | 4/15/2014 | NM | OU3 | 0.56 U | 0.61 U | 0.92 U | 0.86 U | 0.97 U | 5 J | 29.8 J | 0.75 U | 0.85 U | 0.98 U | 1.85 J | 0.49 U | 0.42 U | 0.43 U | 2.24 J | 1.54 J | 7.64 J | 0.56 U | 0.61 U | 4.46 | 11 | 0.75 U | 0.98 U | 3.1 | 6.69 | 0.284 | 1.27 |
| | 12/18/2015 | NM | OU3 | 0.51 U | 1.28 U | 2.11 U | 1.91 U | 2.07 U | 3.1 U | 9.99 J | 0.51 U | 0.75 U | 0.75 U | 0.92 U | 1.55 U | 1 U | 1.06 U | 1.44 U | 2.65 U | 3.75 U | 0.51 U | 1.28 U | 2.11 U | 3.1 U | 0.51 U | 0.75 U | 1.55 U | 2.65 U | 0.003 | 1.61 |
| | 6/8/2016 | NM | OU3 | 0.67 U | 1.54 U | 4.22 U | 4.14 U | 4.51 U | 5.3 U | 35 J | 0.8 U | 1.21 U | 1.1 U | 1.56 U | 2.34 U | 1.65 U | 1.71 U | 2.69 U | 4.39 U | 5.55 U | 0.67 U | 1.54 U | 4.51 U | 5.3 U | 0.8 U | 1.21 U | 2.34 U | 4.39 U | 0.011 | 2.41 |
| NFMW20 | 12/17/2015 | NM | OU3 | 0.6 U | 1.39 U | 1.69 U | 1.59 U | 1.78 U | 3.6 | 10.7 J | 0.58 U | 0.74 U | 0.73 U | 0.76 U | 1.05 U | 0.79 U | 0.87 U | 0.68 U | 1.07 U | 2.18 U | 0.6 U | 1.39 U | 2.75 U | 7 | 0.58 U | 0.74 U | 1.05 U | 1.07 U | 0.039 | 1.62 |
| | 6/7/2016 | NM | OU3 | 0.9 U | 2.06 U | 3.28 U | 3.2 U | 3.49 U | 4.5 J | 17.2 J | 1.57 U | 2.24 U | 2.22 U | 1.54 U | 2.36 U | 1.63 U | 1.69 U | 1.64 U | 2.75 U | 5.34 U | 0.9 U | 2.06 U | 3.49 U | 11 J | 1.57 U | 2.24 U | 2.36 U | 2.75 U | 0.051 | 2.86 |
| NFMW3 | 4/16/2014 | NM | OU3 | 0.55 U | 0.69 U | 0.89 U | 0.83 U | 0.92 U | 1.7 U | 6.73 J | 0.31 U | 0.43 U | 0.55 U | 0.61 U | 0.81 U | 0.65 U | 0.71 U | 0.54 U | 0.68 U | 1.14 U | 0.55 U | 0.69 U | 0.92 U | 1.7 U | 0.31 U | 0.55 U | 0.81 U | 0.68 U | 0.002 | 1.01 |
| | 12/18/2015 | NM | OU3 | 0.69 U | 1.07 U | 2.06 U | 2 U | 2.3 U | 2.9 | 15.6 J | 0.96 U | 0.98 U | 1.09 U | 1.05 U | 1.7 U | 1.08 U | 1.22 U | 1.88 U | 3.01 U | 3.49 U | 0.69 U | 1.07 U | 2.3 U | 5.7 | 0.96 U | 1.09 U | 1.7 U | 3.01 U | 0.033 | 1.73 |
| | 6/8/2016 | NM | OU3 | 0.44 U | 1.21 U | 2.28 U | 2.17 U | 2.32 U | 3.6 U | 11.4 J | 0.94 U | 0.87 U | 0.9 U | 1.34 U | 2.05 U | 1.44 U | 1.49 U | 1.8 U | 2.74 U | 2.49 U | 0.44 U | 1.21 U | 2.32 U | 3.6 U | 0.94 U | 0.9 U | 2.05 U | 2.74 U | 0.003 | 1.72 |
| NFMW4 | 4/15/2014 | NM | OU3 | 0.61 U | 0.6 U | 0.8 U | 0.75 U | 0.83 U | 1.3 U | 2.99 U | 0.29 U | 0.46 U | 0.55 U | 0.5 U | 0.65 U | 0.54 U | 0.57 U | 0.74 U | 0.93 U | 1.29 U | 0.61 U | 0.6 U | 0.83 U | 1.3 U | 0.29 U | 0.55 U | 0.65 U | 0.93 U | 0 U | 0.957 U |
| | 12/16/2015 | NM | OU3 | 0.72 U | 1.34 U | 1.9 U | 1.76 U | 1.93 U | 2.5 | 12.7 | 0.9 U | 1.19 U | 1.36 U | 1.37 U | 2.17 U | 1.47 U | 1.64 U | 1.17 U | 1.84 U | 3.33 U | 0.72 U | 1.34 U | 1.93 U | 5.2 | 0.9 U | 1.36 U | 2.17 U | 1.84 U | 0.029 | 1.95 |
| | 6/6/2016 | NM | OU3 | 0.74 U | 1.43 U | 3.24 U | 3.09 U | 3.3 U | 5.4 U | 28.3 J | 0.98 U | 1.62 U | 1.56 U | 1.12 U | 1.65 U | 1.17 U | 1.26 U | 2.81 U | 4.54 U | 9.28 U | 0.74 U | 1.43 U | 3.3 U | 5.4 U | 0.98 U | 1.62 U | 6.49 J | 4.54 U | 0.008 | 2.21 |
| NFMW7 | 12/9/2015 | NM | OU3 | 0.76 U | 1.5 U | 1.81 U | 1.7 U | 1.91 U | 2.2 U | 5.05 U | 1.28 U | 1.41 U | 1.51 U | 1.43 U | 1.9 U | 1.53 U | 1.61 U | 1.35 U | 2.15 U | 2.82 U | 0.76 U | 1.5 U | 1.91 U | 2.2 U | 1.28 U | 1.51 U | 1.9 U | 2.15 U | 0 U | 2.06 U |
| | 6/8/2016 | NM | OU3 | 0.75 U | 1.42 U | 1.95 U | 1.88 U | 2.02 U | 3.4 U | 11 J | 0.94 U | 1.01 U | 1.01 U | 1.6 U | 2.49 U | 1.65 U | 1.8 U | 1.89 U | 3.26 U | 4.54 U | 0.75 U | 1.42 U | 2.02 U | 3.4 U | 0.94 U | 1.01 U | 2.49 U | 3.26 U | 0.003 | 2.01 |
| NFMW8 | 12/17/2015 | NM | OU3 | 0.58 U | 0.87 U | 1.62 U | 1.49 U | 1.63 U | 2.2 | 10.6 J | 0.48 U | 0.68 U | 0.69 U | 0.66 U | 0.98 U | 0.67 U | 0.74 U | 0.87 U | 1.26 U | 2.2 U | 0.58 U | 0.87 U | 1.63 U | 5.2 | 0.48 U | 0.69 U | 0.98 U | 1.26 U | 0.025 | 1.29 |
| | 6/8/2016 | NM | OU3 | 1.02 U | 1.91 U | 2.42 U | 2.29 U | 2.42 U | 3.4 U | 7.65 U | 0.79 U | 1.17 U | 1.2 U | 2.17 U | 3.62 U | 2.28 U | 2.46 U | 2.55 U | 3.97 U | 4.87 U | 1.02 U | 1.91 U | 2.42 U | 3.4 U | 0.79 U | 1.2 U | 3.62 U | 3.97 U | 0 U | 2.64 U |
| NFMW9 | 12/21/2015 | NM | OU3 | 2.25 | 1.29 U | 6.55 | 2.2 U | 7.14 | 75 | 1190 | 1.46 | 1.46 U | 1.43 U | 0.88 U | 1.5 U | 3.62 | 2 | 9.59 | 3.51 | 6.84 | 6.35 | 24.8 | 115 | 214 | 21.7 | 31.2 | 156 | 55.7 | 4.60 | 5.81 |
| | 6/8/2016 | NM | OU3 | 1 U | 2.03 U | 2.58 U | 2.47 U | 3.49 J | 23 J | 188 J | 2.96 J | 2.32 U | 2.38 U | 2.3 U | 3.6 U | 5.84 J | 2.64 U | 22.3 J | 2.86 U | 5.69 U | 1 U | 4.91 J | 24.2 J | 56 J | 29.9 | 46.6 | 163 | 35.3 | 1.73 | 4.33 |
| SMW10 | 12/14/2015 | NM | OU3 | 0.91 U | 2.3 U | 3.54 U | 3.36 U | 3.79 U | 8.3 | 41.1 | 1.4 U | 1.97 U | 2.19 U | 1.7 U | 2.33 U | 1.64 U | 1.94 U | 1.95 U | 2.73 U | 3.59 U | 0.91 U | 2.3 U | 15.9 | 19 | 1.4 U | 2.19 U | 2.33 U | 2.73 U | 0.095 | 3.07 |
| | 6/3/2016 | NM | OU3 | 0.83 U | 0.97 U | 2.03 U | 1.89 U | 1.98 U | 3 J | 14.2 J | 0.71 U | 1.12 U | 1.16 U | 1.02 U | 1.81 U | 1.09 U | 1.22 U | 1.15 U | 2.01 U | 2.85 U | 0.83 U | 0.97 U | 4.61 J | 8 J | 0.71 U | 1.16 U | 1.81 U | 2.01 U | 0.035 | 1.73 |
| SMW11 | 12/14/2015 | NM | OU3 | 1.48 U | 3.53 U | 3.08 U | 4.02 | 6.48 | 17 | 61 | 1.96 U | 2.76 U | 2.98 U | 2.45 U | 3.34 U | 2.34 U | 2.73 U | 2.52 U | 3.93 U | 5.81 U | 1.48 U | 3.53 U | 42 | 36 | 1.96 U | 2.98 U | 3.34 U | 3.93 U | 1.24 | 5.06 |
| | 6/3/2016 | NM | OU3 | 0.73 U | 1.44 U | 1.84 U | 1.77 U | 1.89 U | 4.5 J | 14.3 J | 0.97 U | 1.21 U | 1.31 U | 1.35 U | 2.33 U | 1.39 U | 1.55 U | 1.48 U | 2.63 U | 3.08 U | 0.73 U | 1.44 U | 5.41 J | 9.8 J | 0.97 U | 1.31 U | 2.33 U | 2.63 U | 0.049 | 2.03 |
| SMW12 | 12/14/2015 | NM | OU3 | 1.36 U | 3.11 U | 3.04 U | 2.57 U | 5.14 | 16 | 44.3 | 2.12 U | 2.43 U | 2.61 U | 1.68 U | 2.22 U | 1.86 U | 1.98 U | 2.71 U | 4.07 U | 4.86 U | 1.36 U | 3.11 U | 29.9 | 33 | 3.4 | 2.61 U | 3.8 | 4.07 U | 0.688 | 4.16 |
| | 6/6/2016 | NM | OU3 | 0.8 U | 2.67 U | 4.13 U | 3.9 U | 4.13 U | 15 J | 43.4 J | 1.14 U | 1.75 U | 1.9 U | 1.6 U | 2.43 U | 1.76 U | 1.9 U | 3.08 U | 4.87 U | 6.21 U | 0.8 U | 2.67 U | 12.6 J | 29 J | 1.14 U | 1.9 U | 2.43 U | 4.87 U | 0.167 | 3.30 |
| SMW13 | 12/15/2015 | NM | OU3 | 1.18 U | 2.52 U | 2.62 U | 2.47 U | 2.76 U | 13 | 43.4 | 1.31 U | 1.85 U | 1.9 U | 1.8 U | 2.58 U | 1.85 U | 2.04 U | 1.76 U | 2.67 U | 2.95 U | 1.18 U | 2.52 U | 19.4 | 27 | 1.31 U | 1.9 U | 2.58 U | 2.67 U | 0.143 | 3.20 |
| | 6/6/2016 | NM | OU3 | 1.14 U | 2.64 U | 4.05 U | 3.83 U | 4.06 U | 19 J | 47.9 J | 1.3 U | 1.96 U | 1.88 U | 3.22 U | 4.66 U | 3.3 U | 3.56 U | 2.75 U | 4.46 U | 5.15 U | 1.14 U | 2.64 U | 13.1 J | 34 J | 1.3 U | 1.96 U | 4.66 U | 5.75 U | 0.208 | 3.85 |
| SMW14 | 12/15/2015 | NM | OU3 | 0.84 U | 1.78 U | 2.89 U | 2.64 U | 2.87 U | 5.7 | 29.5 | 0.97 U | 1.69 U | 2.27 U | 2.79 U | 1.04 U | 2.75 U | 1.03 U | 8.96 U | 4.99 U | 5.36 U | 0.84 U | 10.3 | 7.26 | 12 | 0.97 U | 2.27 U | 2.79 U | 37.8 | 0.066 | 2.66 |
| | 6/6/2016 | NM | OU3 | 0.81 U | 2.51 U | 2.36 U | 2.25 U | 2.41 U | 11 J | 39.5 J | 1.3 U | 2.27 U | 1.86 U | 1.58 U | 2.34 U | 1.67 U | 1.76 U | 3.89 U | 5.97 U | 3.92 U | 0.81 U | 2.51 U | 8.29 J | 21 J | 1.3 U | 2.27 U | 2.34 U | 5.97 U | 0.120 | 2.93 |
| SMW15 | 4/16/2014 | NM | OU3 | 0.58 U | 0.62 U | 0.89 U | 0.85 U | 0.96 U | 2.8 J | 7.78 J | 0.49 U | 0.4 U | 0.53 U | 0.7 U | 0.97 U | 0.82 U | 0.85 U | 0.62 U | 0.8 U | 1.01 U | 0.58 U | 0.62 U | 3.23 | 5.3 | 0.49 U | 0.53 U | 0.97 U | 0.8 U | 0.031 | 1.05 |
| | 12/15/2015 | NM | OU3 | 0.78 U | 1.41 U | 1.49 U | 1.38 U | 1.53 U | 1.5 U | 4.57 | 0.65 U | 0.98 U | 1.02 U | 1.07 U | 1.49 U | 1.11 U | 1.19 U | 1.55 U | 2.29 U | 2.31 U | 0.78 U | 1.41 U | 1.53 U | 1.5 U | 0.65 U | 1.02 U | 1.49 U | 2.29 U | 0.001 | 1.79 |
| | 6/6/2016 | NM | OU3 | 0.63 U | 1.66 U | 2.52 U | 2.44 U | 2.65 U | 4.8 U | 12.6 J | 0.55 U | 0.92 U | 0.85 U | 0.91 U | 1.39 U | 1 U | 1.04 U | 1.33 U | 2.13 U | 2.98 U | 0.63 U | 1.66 U | 2.65 U | 4.8 U | 0.55 U | 0.92 U | 1.39 U | 2.13 U | 0.004 | 1.96 |
| SMW16 | 4/15/2014 | NM | OU3 | 0.58 U | 0.65 U | 0.97 U | 0.89 U | 0.97 U | 6.2 J | 19.7 J | 0.34 U | 1.31 J | 0.57 U | 0.52 U | 0.7 U | 1.28 J | 0.61 U | 1.55 J | 0.57 U | 1.46 U | 0.58 U | 0.65 U | 5.61 | 13 | 14.7 | 13 | 7.51 | 2.64 | 0.251 | 1.20 |
| | 12/16/2015 | NM | OU3 | 0.75 U | 1.54 U | 1.63 U | 1.48 U | 1.61 U | 8.4 | 35.4 | 0.72 U | 1.27 U | 1.37 U | 1.16 U | 1.62 U | 1.12 U | 1.24 U | 1.64 U | 2.48 U | 2.69 U | 0.75 U | 1.54 U | 6.72 | 16 | 8.33 | 1.37 U | 1.62 U | 2.48 U | 0.095 | 2.01 |
| | 6/7/2016 | NM | OU3 | 1.1 U | 1.39 U | 2.43 U | 2.3 U | 2.43 U | 6.7 J | 28.8 J | 1.74 U | 2.36 U | 2.43 U | 1.77 U | 2.75 U | 1.87 U | 2.05 U | 1.54 U | 2.48 U | 3.33 U | 1.1 U | 1.39 U | 5.78 J | 14 J | 1.74 U | 2.43 U | 2.75 U | 2.48 U | 0.076 | 2.61 |
| SMW17 | 12/16/2015 | NM | OU3 | 3.13 U | 8.02 U | 4.57 U | 10.6 | 20.2 | 71 | 174 | 5.9 | 2.8 U | 2.84 U | 3.3 U | 4.54 U | 3.36 U | 3.78 U | 5.79 | 2.26 U | 8.14 U | 3.13 U | 8.02 U | 136 | 148 | 39.9 | 19.6 | 23 | 13.7 | 4.49 | 11.5 |
| | 6/6/2016 | NM | OU3 | 1.34 U | 3.34 U | 3 U | 2.89 U | 5.3 J | 22 J | 71.2 J | 1.75 U | 2.18 U | 2.22 U | 1.86 U | 2.7 U | 1.98 U | 2.05 U | 2.83 U | 4.59 U | 4.2 U | 1.34 U | 3.34 U | 33.3 J | 45 J | 2.12 J | 2.22 U | 2.7 U | 4.59 U | 0.774 | 4.33 |
| SMW18 | 12/16/2015 | NM | OU3 | 0.66 U | 1.37 U | 1.5 U | 1.41 U | 1.58 U | 5.2 | 25.4 | 0.69 U | 0.88 U | 0.95 U | 0.54 U | 0.79 U | 0.59 U | 0.64 U | 1.37 U | 2.03 U | 3.06 U | 0.66 U | 1.37 U | 5.54 | 10 | 0.69 U | 0.95 U | 2.63 | 2.03 U | 0.060 | 1.63 |
| SMW19 | 12/16/2015 | NM | OU3 | 1.01 U | 1.25 U | 1.62 U | 1.56 U | 1.79 U | 5 | 25.2 | 0.89 U | 1.29 U | 1.36 U | 1.28 U | 1.87 U | 1.34 U | 1.43 U | 1.24 U | 1.83 U | 2.65 U | 1.01 U | 1.25 U | 7.28 | 9.9 | 0.89 U | 1.36 U | 1.87 U | 1.83 U | 0.058 | 2.02 |
| | 6/7/2016 | NM | OU3 | 1.13 U | 1.74 U | 2.32 U | 2.21 U | 2.35 U | 5.7 J | 20.9 J | 1.32 U | 1.8 U | 1.72 U | 1.56 U | 2.45 U | 1.57 U | 1.79 U | 1.71 U | 2.9 U | 2.34 U | 1.13 U | 1.74 U | 7.44 J | 12 J | 1.32 U | 1.8 U | 2.45 U | 2.9 U | 0.064 | 2.59 |
| SMW8 | 12/9/2015 | NM | OU3 | 0.69 U | 0.99 U | 1.41 U | 1.29 U | 1.42 U | 1.3 U | 5.64 | 0.8 U | 1.21 U | 1.37 U | 0.65 U | 0.83 U | 0.66 U | 0.72 U | 2.01 U | 2.87 U | 2 U | 0.69 U | 0.99 U | 1.42 U | 1.3 U | 0.8 U | 1.37 U | 0.83 U | 2.87 U | 0.002 | 1.49 |
| TW2R | 4/15/2014 | NM | OU3 | 0.69 U | 0.84 U | 1 U | 0.93 U | 2.23 J | 6.5 J | 19.8 J | 1 J | 0.76 U | 0.7 U | 0.69 U | 0.91 U | 0.72 U | 0.8 U | 0.76 U | 0.94 U | 1.13 U | 0.69 U | 0.84 U | 11.9 | 13 | 7.19 | 7.42 | 3.36 | 0.94 U | 0.394 | 1.54 |
| | 12/15/2015 | NM | OU3 | 0.98 U | 1.41 U | 1.88 U | 1.83 U | 2.11 U | 3.5 | 13.3 | 0.81 U | 0.93 U | 0.94 U | 1.01 U | 1.45 U | 1.07 U | 1.16 U | 1.36 U | 1.89 U | 2.22 U | 0.98 U | 1.41 U | 5.17 | 7.1 | 0.81 U | 0.94 U | 1.45 U | 1.89 U | 0.039 | 1.97 |
| | 6/6/2016 | NM | OU3 | 0.83 U | 2.37 U | 4.13 U | 3.85 U | 4.03 U | 12 J | 43.2 J | 1.15 U | 1.55 U | 1.55 U | 1.54 U | 2.42 U | 1.71 U | 1.73 U | 2.45 U | 4.09 U | 7.9 U | 0.83 U | 2.37 U | 14.5 J | 24 J | 1.15 U | 1.55 U | 2.42 U | 4.09 U | 0.129 | 3.04 |
| TW5R | 12/14/2015 | NM | OU3 | 0.53 U | 0.83 U | 1.84 U | 1.72 U | 1.92 U | 2.8 U | 11.6 | 0.59 U | 0.74 U | 0.78 U | 0.52 U | 0.66 U | 0.55 U | 0.54 U | 0.8 U | 1.12 U | 2.19 U | 0.53 U | 0.83 U | 1.92 U | 2.8 U | 0.59 U | 0.78 U | 0.66 U | 1.12 U | 0.003 | 1.25 |
| WFB1 | 12/21/2015 | NM | OU3 | 0.47 U | 0.97 U | 1.64 U | 1.5 U | 1.63 U | 1.6 U | 4.13 U | 0.51 U | 0.66 U | 0.68 U | 0.69 U | 1.06 U | 0.72 U | 0.77 U | 0.95 U | 1.52 U | 2.11 U | 0.47 U | 0.97 U | 1.64 U | 1.6 U | 0.51 U | 0.68 U | 1.06 U | 1.52 U | 0 U | 1.28 U |



DRAFT (Version 1)

**TABLE 3**
**Dioxin and Furan Concentrations (pg/L) in Groundwater (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample Identification | Sample Date | Type | OU | 2378-TCDD | 12378-PeCDD | 123478-HxCDD | 123789-HxCDD | 123678-HxCDD | 1234678-HpCDD | 12346789-OCDD | 2378-TCDF | 12378-PeCDF | 23478-PeCDF | 123478-HxCDF | 123789-HxCDF | 123678-HxCDF | 234678-HxCDF | 1234678-HpCDF | 1234789-HpCDF | 12346789-OCDF | Total TCDD | Total PeCDD | Total HxCDD | Total HpCDD | Total TCDF | Total PeCDF | Total HxCDF | Total HpCDF | TEQ 0DL | TEQ 1/2DL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWD1 (CountyMW) | 12/8/2015 | DUP | OU1 | 1.42 U | 2.13 U | 2.81 U | 2.59 U | 2.85 U | 3.2 U | 5.35 U | 1.56 U | 2.47 U | 2.37 U | 1.98 U | 2.47 U | 1.97 U | 2.09 U | 2.56 U | 3.66 U | 4.86 U | 1.42 U | 2.13 U | 2.85 U | 3.2 U | 1.56 U | 2.47 U | 2.47 U | 3.66 U | 0 U | 3.13 U |
| GWD2 (MW4) | 12/11/2015 | DUP | OU2 | 0.64 U | 1.24 U | 1.58 U | 1.52 U | 1.75 U | 1.3 U | 3.73 U | 0.68 U | 0.74 U | 0.86 U | 0.8 U | 1.04 U | 0.82 U | 0.84 U | 0.94 U | 1.4 U | 2.86 U | 0.64 U | 1.24 U | 1.75 U | 1.3 U | 0.68 U | 0.86 U | 1.04 U | 1.4 U | 0 U | 1.47 U |
| GWD1 (NFMW15) | 6/3/2016 | DUP | OU2 | 0.48 U | 1.44 U | 1.8 U | 1.64 U | 1.69 U | 5.9 J | 22.9 J | 0.49 U | 1.26 U | 1.23 U | 1.1 U | 1.91 U | 1.14 U | 1.26 U | 1.18 U | 2.14 U | 2.99 U | 0.48 U | 1.44 U | 6.84 J | 12 J | 1.8 J | 1.26 U | 1.91 U | 2.14 U | 0.066 | 1.80 |
| FR-MW (SMW-16) | 4/15/2014 | DUP | OU3 | 0.53 U | 0.75 U | 0.88 U | 0.84 U | 0.96 U | 7 J | 20.6 J | 0.47 U | 0.64 U | 0.75 U | 0.59 U | 0.75 U | 0.59 U | 0.67 U | 0.74 U | 0.94 U | 1.3 U | 0.53 U | 0.75 U | 6.22 | 13 | 2.96 | 1.5 | 1.53 | 0.94 U | 0.076 | 1.13 |
| GWD3 (NFMW9) | 12/21/2015 | DUP | OU3 | 2.25 | 1.29 U | 6.55 | 2.2 U | 7.14 | 75 | 1190 | 1.46 | 1.46 U | 1.43 U | 0.88 U | 1.5 U | 3.62 | 2 | 9.59 | 3.51 | 6.84 | 6.35 | 24.8 | 115 | 214 | 21.7 | 31.2 | 156 | 55.7 | 4.600 | 5.81 |
| GWD2 (SMW17) | 6/6/2016 | DUP | OU3 | 1.34 U | 3.34 U | 3 U | 2.89 U | 5.3 J | 22 J | 71.2 J | 1.75 U | 2.18 U | 2.22 U | 1.86 U | 2.7 U | 1.98 U | 2.05 U | 2.83 U | 4.59 U | 4.2 U | 1.34 U | 3.34 U | 33.3 J | 45 J | 2.12 J | 2.22 U | 2.7 U | 4.59 U | 0.774 | 4.33 |

**Notes:** Dioxins and Furans analyzed by EPA Method 8290.
J - Concentration is considered estimated.
U - Concentration is below the reporting limit. Reporting limit shown
**blue font** - June 2016 Sampling Event

**Acronyms:**
DUP (NM) - duplicate sample (associated natural sample)
GWD - groundwater duplicate sample
ID - identification
NM - natural sample
OU - Operable Unit
pg/L - picograms per liter (parts per quadrillion)
TEQ - Toxicity equivalence quotient; calculated using 2005 World Health Organization Toxicity Equivalence Factors
0DL - TEQ result was calculated using 0 pg/L for congeners that were not detected
1/2DL - TEQ result was calculated using 1/2 the reporting limit (pg/L) for congeners that were not detected

Hp - hepta
Hx - hexa
O - octa
Pe - penta
T - tetra
CDD - chlorinated dibenzodioxin
CDF - chlorinated dibenzofuran


DRAFT (Version 1)

**TABLE 4**
**Dissolved Metal Concentrations (µg/L) in Groundwater (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Date | Type | OU | Aluminum | Arsenic | Barium | Cadmium | Chromium | Cobalt | Copper | Iron | Lead | Manganese | Mercury | Nickel | Silver | Thallium | Vanadium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CountyMW | 4/15/2014 | NM | OU1 | 10 U | 1.6 | 359 | 0.08 U | 0.5 U | 0.5 U | 2.9 | 50 U | 0.1 U | 0.5 U | 0.2 U | 0.8 | 0.5 U | 0.1 U | 1.4 | 5 U |
| | 12/8/2015 | NM | OU1 | 10 U | 1.7 | 247 | 0.08 U | 0.5 U | 0.5 UJ | 1.3 | 50 U | 0.1 U | 0.5 U | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.6 J- | 5 U |
| | 5/31/2016 | NM | OU1 | 10 J | 1.8 | 363 J- | 0.08 J | 0.5 J | 0.5 J | 2.1 | 50 U | 0.1 J | 0.5 J | 0.2 U | 0.95 | 0.2 U | 0.1 J | 1.5 | 5 J |
| NFMW21 | 12/7/2015 | NM | OU1 | 10 U | 2.6 | 144 | 0.08 U | 0.73 J- | 0.5 UJ | 1 U | 50 U | 0.1 U | 3 J+ | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.4 | 5 U |
| | 6/1/2016 | NM | OU1 | 10 J | 2.9 | 191 J- | 0.08 U | 0.5 J | 0.5 J | 1 J | 50 U | 0.1 U | 0.67 | 0.2 U | 0.5 J | 0.2 U | 0.1 U | 1.5 | 5 U |
| RE289 | 12/10/2015 | NM | OU1 | 13.4 | 0.88 | 219 | 0.08 U | 0.5 U | 0.83 J- | 1.6 J- | 50 U | 0.1 U | 851 | 0.2 U | 1 | 0.5 U | 0.1 U | 1 U | 5 U |
| | 6/2/2016 | NM | OU1 | 10 J | 0.71 | 204 | 0.08 J | 0.71 | 0.8 | 1.6 | 50 U | 0.1 J | 681 | 0.2 U | 1.1 | 0.5 U | 0.1 U | 1 J | 5 J |
| SMW1 | 12/7/2015 | NM | OU1 | 10 U | 1.2 | 175 | 0.08 U | 0.78 J- | 0.5 UJ | 1 U | 50 U | 0.16 | 0.24 UJ | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| SMW2 | 12/7/2015 | NM | OU1 | 10 UJ | 1.3 | 201 | 0.08 U | 1.4 J- | 0.5 UJ | 1 U | 50 U | 0.1 U | 0.5 UJ | 0.2 U | 0.68 | 0.5 U | 0.1 U | 1.3 | 5.6 |
| SMW20 | 4/14/2014 | NM | OU1 | 10 U | 1.4 | 256 | 0.08 U | 0.33 J | 0.5 U | 1.1 | 50 U | 0.1 U | 0.69 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 0.78 J | 3.1 J |
| | 12/9/2015 | NM | OU1 | 10 UJ | 1.7 | 289 | 0.08 U | 0.5 J- | 0.6 J- | 1.2 J- | 50 U | 0.1 U | 1.2 J | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| SMW3 | 12/7/2015 | NM | OU1 | 10 UJ | 1.1 | 181 | 0.08 U | 2 J- | 0.5 UJ | 1 U | 50 U | 0.1 U | 0.28 UJ | 0.2 U | 0.72 | 0.5 U | 0.1 U | 1.1 | 5 U |
| | 6/1/2016 | NM | OU1 | 10 J | 1.3 | 261 J- | 0.08 J | 0.58 | 0.5 J | 1.2 | 50 U | 0.1 J | 0.88 | 0.2 U | 0.5 J | 0.2 U | 0.1 J | 1.4 | 5 J |
| SMW4 | 4/14/2014 | NM | OU1 | 2.3 J | 4.8 | 150 | 0.043 J | 0.5 U | 1.6 | 6.7 | 50 U | 0.1 U | 1590 | 0.2 U | 3.8 | 0.5 U | 0.1 U | 1.7 | 3.8 J |
| | 12/8/2015 | NM | OU1 | 10 UJ | 4.5 | 88 | 0.08 U | 9.7 | 0.5 U | 2.2 J- | 52 | 0.1 U | 848 | 0.2 U | 4.8 | 0.5 U | 0.1 U | 1.7 | 5 U |
| | 6/1/2016 | NM | OU1 | 10 J | 4.7 | 118 J- | 0.08 J | 0.5 J | 0.64 | 2.5 | 50 U | 0.1 J | 1390 | 0.2 U | 1.7 | 0.2 U | 0.1 J | 1.9 | 5 J |
| SMW5 | 12/8/2015 | NM | OU1 | 10 UJ | 5.2 | 152 | 0.08 U | 1.1 J- | 0.5 UJ | 3.4 J- | 50 U | 0.18 | 1.1 J | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.1 | 5.6 |
| SMW6 | 12/8/2015 | NM | OU1 | 10 UJ | 3.9 | 119 | 0.08 U | 1.1 J- | 0.5 UJ | 1.2 J- | 50 U | 0.1 U | 0.27 UJ | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.8 | 5 U |
| SMW7 | 12/8/2015 | NM | OU1 | 10 UJ | 3.5 | 77.1 | 0.08 U | 0.42 UJ | 0.55 J- | 2.4 J- | 50 U | 0.1 U | 625 | 0.2 U | 0.78 | 0.5 U | 0.1 U | 1.4 | 5 U |
| | 6/1/2016 | NM | OU1 | 10 J | 6.3 | 92.8 J- | 0.08 J | 0.5 J | 0.84 | 1.7 | 144 | 0.1 J | 843 | 0.2 U | 0.86 | 0.2 U | 0.1 U | 1.1 | 5 U |
| SMW9 | 4/15/2014 | NM | OU1 | 35.3 | 7.2 | 46.1 | 0.06 J | 0.72 | 0.5 U | 7.7 | 60.6 | 0.26 | 4.6 | 0.2 U | 3.6 | 0.5 U | 0.1 U | 6.8 | 3.2 J |
| | 12/9/2015 | NM | OU1 | 36.5 | 7.5 | 67.9 | 0.08 U | 1.2 J- | 0.73 J- | 6.9 J- | 61.6 | 0.18 | 135 | 0.2 U | 3.3 | 0.5 U | 0.1 U | 7.2 | 5 U |
| | 6/2/2016 | NM | OU1 | 10 J | 7.3 | 49 | 0.08 J | 0.88 | 0.5 J | 4.7 | 50 J | 0.1 J | 1.2 | 0.2 U | 3.3 | 0.5 J | 0.1 J | 5.2 | 5 J |
| MW1 | 4/15/2014 | NM | OU2 | 10 U | 1.6 | 145 | 0.08 U | 0.5 U | 0.5 U | 1.8 | 50 U | 0.1 U | 1.3 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.7 | 6.9 J |
| MW4 | 12/11/2015 | NM | OU2 | 14.5 | 1.6 | 152 | 0.08 U | 0.5 U | 0.5 U | 1 U | 50 U | 0.1 U | 1 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.5 | 5 U |
| MW7 | 12/14/2015 | NM | OU2 | 10 U | 1.6 | 121 | 0.08 U | 0.56 J- | 0.5 U | 1.5 | 50 U | 0.17 | 1.4 J+ | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.4 J- | 5 U |
| NFMW13 | 12/10/2015 | NM | OU2 | 10 U | 1.4 | 227 | 0.08 U | 0.5 U | 0.67 J- | 1.6 | 50 U | 0.1 U | 165 | 0.2 U | 0.86 | 0.5 U | 0.1 U | 1 U | 5 U |
| | 6/2/2016 | NM | OU2 | 10 J | 3 | 191 | 0.08 U | 0.54 | 0.5 J | 1.5 | 50 U | 0.1 U | 0.52 | 0.2 U | 0.5 J | 0.5 U | 0.1 U | 1.5 | 5 J |
| NFMW14 | 12/10/2015 | NM | OU2 | 10 U | 1.3 | 226 | 0.08 U | 0.5 U | 0.87 J- | 1 U | 50 U | 0.1 U | 150 | 0.2 U | 0.64 | 0.5 U | 0.1 U | 1.2 J- | 5 U |
| NFMW15 | 12/10/2015 | NM | OU2 | 26 | 5 | 222 | 0.12 | 0.5 U | 3.2 | 4.8 | 196 | 0.37 | 2960 | 0.2 U | 1.8 | 0.5 U | 0.1 U | 3.3 J- | 5 U |
| | 6/3/2016 | NM | OU2 | 33.7 | 1.8 | 235 | 0.08 J | 0.5 J | 2.9 | 5.8 | 258 J- | 0.3 | 3030 | 0.2 U | 1.6 | 0.5 J | 0.1 J | 1 J | 5 J |
| NFMW16 | 12/11/2015 | NM | OU2 | 252 | 13.4 | 53.5 | 0.08 U | 0.97 J- | 0.86 J- | 6 | 284 | 1.2 | 46.1 | 0.2 U | 0.86 | 0.5 U | 0.1 U | 5.1 | 5.6 |
| | 6/3/2016 | NM | OU2 | 109 | 10 | 35.7 | 0.08 J | 0.72 | 0.5 J | 3.8 | 180 J- | 0.66 | 23.1 | 0.2 U | 0.59 | 0.5 U | 0.1 J | 3.2 | 5 J |
| NFMW17 | 12/11/2015 | NM | OU2 | 10 U | 2.5 | 125 | 0.08 U | 0.59 J- | 0.63 J- | 1 | 50 U | 0.1 U | 99.9 | 0.2 U | 0.78 | 0.5 U | 0.1 U | 2.4 J- | 5 U |
| NFMW18 | 12/21/2015 | NM | OU2 | 1410 | 5.5 | 52.1 | 0.08 U | 1.8 J- | 1.2 J- | 7.9 | 1360 | 0.86 | 561 | 0.2 U | 1.9 | 0.5 U | 0.1 U | 3.2 J- | 5 U |
| | 6/3/2016 | NM | OU2 | 778 | 6.6 | 71.5 | 0.08 J | 1.1 | 1.3 | 9 | 686 J- | 0.77 | 391 | 0.2 U | 5.1 | 0.5 J | 0.1 J | 3 | 5 J |
| NFMW5 | 4/15/2014 | NM | OU2 | 76 | 2.2 | 230 | 0.08 U | 0.5 U | 0.41 J | 1.8 | 200 | 0.44 | 984 | 0.2 U | 0.52 | 0.5 U | 0.1 U | 1.3 | 6.3 |
| | 12/10/2015 | NM | OU2 | 10 U | 1.5 | 223 | 0.08 U | 0.5 U | 0.6 J- | 1 U | 366 | 0.1 U | 669 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| | 6/2/2016 | NM | OU2 | 10 J | 0.96 | 228 | 0.08 U | 0.5 J | 0.5 J | 1 U | 403 | 0.1 U | 724 | 0.2 U | 0.5 J | 0.5 U | 0.1 U | 1 J | 5 J |
| NFMW6 | 4/15/2014 | NM | OU2 | 36.5 | 0.54 | 312 | 0.08 U | 0.36 J | 0.5 U | 1 U | 1060 | 0.1 U | 2440 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.5 | 4 J |
| | 12/18/2015 | NM | OU2 | 26 | 0.88 | 366 | 0.08 U | 0.5 U | 0.55 J- | 1 UJ | 592 | 0.1 U | 2390 | 0.2 U | 0.52 | 0.5 U | 0.1 U | 1 U | 5 U |
| ATMW6 | 4/14/2014 | NM | OU3 | 480 J | 3.8 | 95 | 0.08 U | 1.6 J | 0.5 UJ | 4.5 J | 2660 J | 1.1 | 1630 | 0.2 U | 1.1 | 0.5 U | 0.1 U | 5.2 | 5.5 J |
| | 12/15/2015 | NM | OU3 | 757 | 14.9 | 44.8 | 0.094 | 6.5 | 1.1 J- | 17 | 1950 | 4.3 | 1100 | 0.2 U | 3.2 | 0.5 U | 0.1 U | 35 | 5 U |
| | 6/2/2016 | NM | OU3 | 603 | 13.8 | 34 | 0.085 | 4.9 | 0.52 | 17.4 | 1400 | 5.2 | 798 | 0.2 U | 2.7 | 0.5 J | 0.1 J | 25.9 | 5 J |
| NFMW10 | 12/17/2015 | NM | OU3 | 316 | 30.3 | 173 | 0.08 U | 7.9 | 1.3 J- | 1.7 | 371 | 0.47 | 2320 | 0.2 U | 7.2 | 0.5 U | 0.1 U | 54.1 | 5 U |
| | 6/7/2016 | NM | OU3 | 233 | 26.6 | 151 | 0.08 U | 6.6 | 0.93 | 1.6 | 254 | 0.3 J+ | 2160 | 0.2 U | 6.5 | 0.5 U | 0.1 U | 42.8 | 5 J |
| NFMW11 | 12/17/2015 | NM | OU3 | 83.9 | 4.8 | 207 | 0.08 U | 2.7 J- | 1 J- | 1 U* | 446 | 0.16 | 818 | 0.2 U | 1.7 | 0.5 U | 0.1 U | 9.5 | 5 U |
| | 6/7/2016 | NM | OU3 | 47 | 4.1 | 326 | 0.08 U | 2 | 0.66 | 1 U | 287 | 0.1 J | 1290 | 0.2 U | 1.6 | 0.5 U | 0.1 U | 6.5 | 5 J |
| NFMW12 | 12/9/2015 | NM | OU3 | 10 U | 0.82 | 125 | 0.08 U | 0.5 U | 0.57 J- | 1 U | 1110 | 0.1 U | 192 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| NFMW19 | 12/17/2015 | NM | OU3 | 25.5 | 4.9 | 50 | 0.08 U | 0.86 J- | 1.5 J- | 1 U | 27000 | 0.1 U | 21000 | 0.2 U | 2 | 0.5 U | 0.1 U | 1.9 | 5 U |
| | 6/7/2016 | NM | OU3 | 21.7 | 4.3 | 58.7 | 0.08 U | 1.2 | 0.5 J | 1 U | 5610 | 0.1 U | 20100 | 0.2 U | 2 | 0.5 U | 0.1 U | 2.6 | 5 J |
| NFMW1D | 4/16/2014 | NM | OU3 | 83.6 | 12.7 | 667 J | 0.08 U | 5.7 | 0.61 | 0.38 J | 1380 | 0.12 | 5250 | 0.2 U | 13.6 | 0.5 U | 0.1 U | 19.2 | 5.4 |
| | 12/18/2015 | NM | OU3 | 124 | 22.8 | 436 | 0.08 U | 8.4 | 1.1 J- | 1 UJ | 1100 | 0.1 U | 2900 | 0.2 U | 9.6 | 0.5 U | 0.1 U | 35.5 | 5 U |
| | 6/8/2016 | NM | OU3 | 121 | 21.7 | 455 | 0.08 U | 8.4 | 2.5 J | 5 U | 1280 | 0.1 J | 3140 | 0.2 U | 11.7 | 0.5 U | 0.1 U | 34.2 | 25 J |
| NFMW1S | 4/16/2014 | NM | OU3 | 1450 R | 11.3 R | 32.6 R | 0.048 UR | 3.6 R | 1 R | 1 UR | 674 R | 1.1 R | 103 R | 0.22 | 19.4 R | 0.5 UR | 0.1 UR | 120 R | 17.3 R |
| NFMW2 | 4/15/2014 | NM | OU3 | 80.3 | 13.9 | 258 J | 0.08 U | 0.76 | 0.87 | 4 | 8410 | 0.26 | 4240 | 0.2 U | 0.59 | 0.5 U | 0.1 U | 4.6 | 5.3 |
| | 12/18/2015 | NM | OU3 | 20.6 | 10.9 | 211 | 0.08 U | 0.5 U | 0.92 J- | 2 J- | 4890 | 0.3 | 4600 | 0.2 U | 0.56 | 0.5 U | 0.1 U | 2.3 | 5.3 |
| | 6/8/2016 | NM | OU3 | 50 J | 17.1 | 278 | 0.08 U | 2.5 U | 2.5 J | 5 U | 5720 | 0.1 J | 3780 | 0.2 U | 2.5 J | 0.5 U | 0.1 U | 5 J | 25 U |
| NFMW20 | 12/17/2015 | NM | OU3 | 50 | 5.4 | 67 | 0.08 U | 1.8 J- | 0.86 J- | 1 U | 1340 | 0.1 U | 10200 | 0.2 U | 4 | 0.5 U | 0.1 U | 4.8 | 5 U |
| | 6/7/2016 | NM | OU3 | 54 | 5.4 | 82 | 0.08 U | 1.9 | 0.55 | 1 U | 1700 | 0.1 J | 9710 | 0.2 U | 3.9 | 0.5 U | 0.1 U | 5.5 | 5 J |
| NFMW3 | 4/16/2014 | NM | OU3 | 43 | 5.6 | 499 J | 0.08 U | 3.2 | 0.9 | 1 U | 286 | 0.1 U | 4380 | 0.2 U | 2.9 | 0.5 U | 0.1 U | 8.1 | 3.1 J |
| | 12/18/2015 | NM | OU3 | 59.7 | 5 | 651 | 0.08 U | 4.9 | 1 J- | 1 UJ | 569 | 0.1 U | 4840 | 0.2 U | 5 | 0.5 U | 0.1 U | 11.5 | 5 U |
| | 6/8/2016 | NM | OU3 | 74.4 | 3.3 | 744 | 0.08 U | 5.1 | 2.5 J | 5 U | 437 | 0.1 J | 5150 | 0.2 U | 5.1 | 0.5 U | 0.1 U | 11.9 | 25 J |
| NFMW4 | 4/15/2014 | NM | OU3 | 10.4 | 1.4 | 114 | 0.08 U | 0.54 | 0.5 U | 1.4 | 7580 | 0.1 U | 7630 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 | 16.9 |
| | 12/16/2015 | NM | OU3 | 70.1 | 3.6 | 95.4 | 0.08 U | 1.7 J- | 0.76 J- | 2.3 | 4690 | 0.57 | 2270 | 0.2 U | 0.63 | 0.5 U | 0.1 U | 4.9 | 5 U |
| | 6/6/2016 | NM | OU3 | 73.9 | 1.7 | 117 | 0.08 U | 1.6 | 0.5 J | 1 J | 3410 J | 0.1 J | 3330 | 0.2 U | 1.6 | 0.5 U | 0.1 J | 4.5 | 5 J |
| NFMW7 | 12/9/2015 | NM | OU3 | 16.9 | 23.1 | 365 | 0.08 U | 3.5 | 1.9 | 1 U | 8480 | 0.1 U | 4100 | 0.2 U | 6.5 | 0.5 U | 0.1 U | 13.5 | 5 U |
| | 6/8/2016 | NM | OU3 | 50 J | 14 | 202 | 0.08 U | 4.6 | 2.5 J | 5 U | 3740 | 0.1 J | 1980 | 0.2 U | 4.7 | 0.5 U | 0.1 U | 13.9 | 25 U |
| NFMW8 | 12/17/2015 | NM | OU3 | 29.2 | 2.4 | 463 | 0.08 U | 2.3 J- | 0.72 J- | 1 U | 5900 | 0.1 U | 5250 | 0.2 U | 1.9 | 0.5 U | 0.1 U | 5.6 | 5 U |
| | 6/8/2016 | NM | OU3 | 50 J | 2.5 J | 499 | 0.08 U | 2.9 | 2.5 J | 5 U | 5950 | 0.1 J | 6840 | 0.2 U | 2.5 J | 0.5 U | 0.1 U | 5.2 | 25 J |
| NFMW9 | 12/21/2015 | NM | OU3 | 78.4 | 2.8 | 721 | 0.08 U | 10.6 | 2.8 | 1 U | 5200 | 0.1 U | 4580 | 0.2 U | 11.8 | 0.5 U | 0.1 U | 12.4 | 5.3 |
| | 6/8/2016 | NM | OU3 | 87.4 | 11.9 | 718 | 0.08 U | 6.3 | 2.5 J | 5 U | 3240 | 0.1 J | 2170 | 0.2 U | 4.7 | 0.5 U | 0.1 U | 15.8 | 25 J |
| SMW10 | 12/14/2015 | NM | OU3 | 99.3 | 41.1 | 129 | 0.08 U | 2.8 | 0.84 J- | 1.8 J- | 3070 | 0.97 | 2790 | 0.2 U | 5.7 | 0.5 U | 0.1 U | 19.5 | 5 U |
| | 6/3/2016 | NM | OU3 | 77.9 | 34.5 | 90.1 | 0.08 J | 2.2 | 0.53 | 2.1 | 2260 J- | 0.92 | 2230 | 0.2 U | 5 | 0.5 U | 0.1 U | 15.5 | 5 J |
| SMW11 | 12/14/2015 | NM | OU3 | 182 | 51.9 | 145 | 0.08 U | 5 | 1 J- | 1.1 J- | 2260 | 0.4 | 5350 | 0.2 U | 5.8 | 0.5 U | 0.1 U | 26.6 | 5 U |
| | 6/3/2016 | NM | OU3 | 141 | 35.7 | 136 | 0.08 U | 4 | 0.72 | 1 J | 2220 J- | 0.28 | 6030 | 0.2 U | 4.9 | 0.5 U | 0.1 J | 19.7 | 5 J |
| SMW12 | 12/14/2015 | NM | OU3 | 327 | 15.1 | 173 | 0.08 U | 5.4 | 0.96 J- | 2 J- | 81.6 | 0.26 | 3410 | 0.2 U | 3.7 | 0.5 U | 0.1 U | 17.8 | 5 U |
| | 6/6/2016 | NM | OU3 | 242 | 10.8 | 178 | 0.08 U | 4.1 | 2.5 J | 1 J | 250 U | 0.13 J+ | 4160 | 0.2 U | 3.2 | 0.5 U | 0.1 U | 12.2 | 5 J |
| SMW13 | 12/15/2015 | NM | OU3 | 185 | 13.4 | 146 | 0.08 U | 4.3 | 0.7 J- | 1.4 J- | 815 | 0.42 | 4730 | 0.2 U | 3.7 | 0.5 U | 0.1 U | 19.3 | 5 U |
| | 6/6/2016 | NM | OU3 | 154 | 15.6 | 143 | 0.08 U | 4.4 | 0.69 | 1.4 | 1130 J | 0.53 J+ | 4290 | 0.2 U | 4.4 | 0.5 J | 0.1 U | 20.2 | 5 J |
| SMW14 | 12/15/2015 | NM | OU3 | 50.9 | 32 | 106 | 0.08 U | 3.7 | 0.8 J- | 3.1 | 779 | 0.26 | 2450 | 0.2 U | 3.4 | 0.5 U | 0.1 U | 20.8 | 5 U |
| | 6/6/2016 | NM | OU3 | 50 J | 32.7 | 149 | 0.08 J | 2.5 J | 2.5 J | 2 | 2120 J | 0.4 J+ | 1760 | 0.2 U | 3.7 | 0.5 J | 0.1 U | 11 | 5 J |
| SMW15 | 4/16/2014 | NM | OU3 | 350 | 0.97 | 33.3 | 1.6 | 0.73 | 69.8 | 22.6 | 20800 | 0.51 | 7610 | 0.2 U | 71.1 | 0.5 U | 0.043 J | 0.49 J | 142 |
| | 12/15/2015 | NM | OU3 | 130 | 0.87 | 21.4 | 1.3 | 0.56 J- | 38.9 | 11.9 | 12200 | 0.24 | 15300 | 0.2 U | 29.5 | 0.5 U | 0.15 | 1 U | 44.7 |
| | 6/6/2016 | NM | OU3 | 139 | 1.9 | 20.6 | 2.1 | 0.73 | 378 | 5.1 | 41200 J | 0.1 J | 24500 | 0.2 U | 264 | 0.5 U | 0.1 J | 1.3 | 242 |
| SMW16 | 4/15/2014 | NM | OU3 | 72 | 10 J | 191 | 0.08 U | 3.3 J | 0.5 U | 0.52 J | 6600 | 0.11 | 5400 | 0.2 U | 5 | 0.5 U | 0.1 U | 18.7 | 4 J |
| | 12/16/2015 | NM | OU3 | 123 | 21.2 | 190 | 0.08 U | 8.3 | 1.3 J- | 1 J- | 5590 | 0.19 | 4600 | 0.2 U | 7.2 | 0.5 U | 0.1 U | 33.3 | 5 U |
| | 6/7/2016 | NM | OU3 | 79.2 | 18.1 | 200 | 0.08 U | 5.7 | 1 | 1 | 6420 | 0.15 J+ | 4780 | 0.2 U | 6 | 0.5 U | 0.1 U | 24 | 5 J |
| SMW17 | 12/16/2015 | NM | OU3 | 705 | 60.7 | 179 | 0.08 U | 17.6 | 2.2 | 1 U | 216 | 0.41 | 3850 | 0.2 U | 12 | 0.5 U | 0.1 U | 87.7 | 5 U |
| | 6/6/2016 | NM | OU3 | 591 | 53.1 | 191 | 0.08 J | 16.3 | 2 | 1 J | 197 J | 0.33 J+ | 3930 | 0.2 U | 11.9 | 0.5 J | 0.1 J | 79.1 | 5 J |
| SMW18 | 12/16/2015 | NM | OU3 | 76.5 | 2.6 | 52.3 | 0.08 U | 1.7 J- | 1.2 J- | 3.9 J- | 1180 | 0.78 | 3810 | 0.2 U | 1.7 | 0.5 U | 0.1 U | 5.4 | 5 U |
| SMW19 | 12/16/2015 | NM | OU3 | 97 | 4.6 | 103 | 0.08 U | 3 J- | 0.94 J- | 1 U | 1800 | 0.19 | 2610 | 0.2 U | 2 | 0.5 U | 0.1 U | 10.2 | 30.4 |
| | 6/7/2016 | NM | OU3 | 95.2 | 4.3 | 119 | 0.08 U | 3.7 | 0.84 | 1 U | 113 | 0.1 J | 2270 | 0.2 U | 2.4 | 0.5 U | 0.1 U | 10.7 | 5 J |
| SMW8 | 12/9/2015 | NM | OU3 | 10 U | 7.5 | 77.8 | 0.08 U | 0.5 U | 0.5 U | 1 U | 1500 | 0.13 | 1340 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| TW2R | 4/15/2014 | NM | OU3 | 161 | 8.3 | 65 | 0.08 U | 3.4 | 0.5 U | 4.6 J | 2350 | 0.94 | 1530 | 0.2 U | 2.4 | 0.5 U | 0.1 U | 13.1 | 5 U |
| | 12/15/2015 | NM | OU3 | 55.9 | 2.6 | 65.1 | 0.08 U | 1.4 J- | 0.69 J- | 1 U | 928 | 0.1 U | 1250 | 0.2 U | 1.1 | 0.5 U | 0.1 U | 3.8 | 5 U |
| | 6/6/2016 | NM | OU3 | 95.2 | 4.2 | 53.4 | 0.08 U | 2.5 | 0.5 J | 1 J | 5940 J | 0.13 J+ | 1610 | 0.2 U | 1.9 | 0.5 U | 0.1 J | 9.5 | 5 J |
| TW5R | 12/14/2015 | NM | OU3 | 10 U | 3.5 | 263 | 0.08 U | 0.5 U | 1.3 J- | 2.1 J- | 6030 | 0.13 | 1440 | 0.2 U | 3 | 0.5 U | 0.1 U | 1.1 | 5 U |
| WFB1 | 12/21/2015 | NM | OU3 | 10 U | 1.1 | 363 | 0.08 U | 0.5 U | 0.76 J- | 1 U | 491 | 0.1 U | 434 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1 U | 5 U |
| GWD1 (CountyMW) | 12/8/2015 | DUP | OU1 | 10 U | 1.7 | 247 | 0.08 U | 0.5 U | 0.5 UJ | 1.3 | 50 U | 0.1 U | 0.5 U | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.6 J- | 5 U |
| GWD2 (MW4) | 12/11/2015 | DUP | OU2 | 14.5 | 1.6 | 152 | 0.08 U | 0.5 U | 0.5 U | 1 U | 50 U | 0.1 U | 1 | 0.2 U | 0.5 U | 0.5 U | 0.1 U | 1.5 | 5 U |
| GWD1 (NFMW15) | 6/3/2016 | DUP | OU2 | 33.7 | 1.8 | 235 | 0.08 J | 0.5 J | 2.9 | 5.8 | 258 J- | 0.3 | 3030 | 0.2 U | 1.6 | 0.5 J | 0.1 J | 1 J | 5 J |
| FR-MW (SMW-16) | 4/15/2014 | DUP | OU3 | 74.9 | 11.1 | 187 | 0.08 U | 3.7 | 0.78 | 1 U | 6660 | 0.12 | 5410 | 0.2 U | 5.4 | 0.5 U | 0.1 U | 18.3 | 5.5 |
| GWD3 (NFMW9) | 12/21/2015 | DUP | OU3 | 78.4 | 2.8 | 721 | 0.08 U | 10.6 | 2.8 | 1 U | 5200 | 0.1 U | 4580 | 0.2 U | 11.8 | 0.5 U | 0.1 U | 12.4 | 5.3 |
| GWD2 (SMW17) | 6/6/2016 | DUP | OU3 | 591 | 53.1 | 191 | 0.08 J | 16.3 | 2 | 1 J | 197 J | 0.33 J+ | 3930 | 0.2 U | 11.9 | 0.5 J | 0.1 J | 79.1 | 5 J |

**Notes:** Dissolved Metals analyzed by EPA Method 6020; Mercury by EPA Method 7471B.
J - Concentration is considered estimated. "+" indicates value may be biased high. "-" indicates value may be biased low.
U - Concentration is below the reporting limit, reporting limit shown. "*" indicates the reporting limit was adjusted to equal the concentration in the blank.
**blue font** - June 2016 Sampling Event

**Acronyms:**
GWD - groundwater duplicate sample
ID - identification
OU - Operable Unit
µg/L - micrograms per liter
NM - natural sample
DUP (NM) - duplicate sample (associated natural sample)



DRAFT (Version 1)

**TABLE 5**
**PCB (Aroclor) Concentrations (µg/L) in Groundwater (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Date | Type | OU | Aroclor-1016 | Aroclor-1221 | Aroclor-1232 | Aroclor-1242 | Aroclor-1248 | Aroclor-1254 | Aroclor-1260 | Aroclor-1262 | Aroclor-1268 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CountyMW | 4/15/2014 | NM | OU1 | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| | 12/8/2015 | NM | OU1 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| | 5/31/2016 | NM | OU1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| SMW20 | 4/14/2014 | NM | OU1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| SMW4 | 4/14/2014 | NM | OU1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| SMW9 | 4/15/2014 | NM | OU1 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| MW1 | 4/15/2014 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| MW4 | 12/11/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| MW7 | 12/14/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW13 | 12/10/2015 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | 6/2/2016 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW14 | 12/10/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW15 | 12/10/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| | 6/3/2016 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW16 | 12/11/2015 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | 6/3/2016 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW17 | 12/11/2015 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| NFMW18 | 12/21/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW5 | 4/15/2014 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| | 12/10/2015 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| | 6/2/2016 | NM | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW6 | 4/15/2014 | NM | OU2 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| ATMW6 | 4/14/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| NFMW10 | 6/7/2016 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW19 | 6/7/2016 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW1D | 4/16/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| NFMW1S | 4/16/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| NFMW2 | 4/15/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.31 | 0.1 U | 0.1 U |
| | 6/8/2016 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.12 | 0.11 U | 0.11 U |
| NFMW20 | 6/7/2016 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW3 | 4/16/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| NFMW4 | 4/15/2014 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| NFMW7 | 12/9/2015 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| SMW15 | 4/16/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| SMW16 | 4/15/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| TW2R | 4/15/2014 | NM | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| WFB1 | 12/21/2015 | NM | OU3 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| GWD1 (CountyMW) | 12/8/2015 | DUP | OU1 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| GWD2 (MW4) | 12/11/2015 | DUP | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| GWD1 (NFMW15) | 6/3/2016 | DUP | OU2 | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U | 0.11 U |
| FR-MW (SMW-16) | 4/15/2014 | DUP | OU3 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U | 0.1 U |

**Notes:** PCB's analyzed by EPA Method 8082.
U - Concentration is below the reporting limit. Reporting limit shown.
blue font - June 2016 Sampling Event

**Acronyms:**
GWD - groundwater duplicate sample
ID - identification
OU - Operable Unit
µg/L - micrograms per liter
NM - natural sample
DUP (NM) - duplicate sample (associated natural sample)


DRAFT (Version 1)

**TABLE 6**
**Groundwater Quality Parameters including Common Ions (2014, 2015, 2016)**
**High Groundwater Data Summary Report**
**Former Frenchtown Mill Site, Missoula County, Montana**

| Sample ID | Date | OU | Type | Chloride | Fluoride | NO2+NO3 | Phosphorus | Sulfate | Bicarbonate | Carbonate | TDS | TOC | SpCond | pH | Calcium | Magnesium | Potassium | Sodium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µS/cm | su | ug/L | ug/L | ug/L | ug/L |
| CountyMW | 4/15/2014 | OU1 | NM | | | | | | | | | | | | 58900 | 21600 | | 23300 |
| | 12/8/2015 | OU1 | NM | 7.1 | 280 | 2.1 J | 170 | 34.9 | 177 | 5 U | 255 | 1 U | 461 | 7.5 | 45300 | 18800 | 3320 | 18600 |
| | 5/31/2016 | OU1 | NM | 27.8 | 0.26 | 3.8 | 0.12 | 40.4 | 207 | 5 U | 348 | 2.1 J+ | 614 | 7.1 J | 58100 | 22400 | 3120 | 24200 |
| NFMW21 | 12/7/2015 | OU1 | NM | 4.2 | 180 | 0.35 | 110 | 23.3 | 193 | 5 U | 247 | 1 U | 436 | 7.5 | 51600 | 17300 | 3850 | 8290 |
| | 6/1/2016 | OU1 | NM | 4.9 | 0.2 | 0.54 | 0.077 | 27.7 | 198 | 5 U | 252 | 2.1 U | 471 | 7 J | 57100 | 17000 | 2500 J | 9810 |
| RE289 | 12/10/2015 | OU1 | NM | 5 | 130 | 0.46 J | 5 J- | 17.5 J+ | 153 | 5 U | 205 | 1.1 J- | 345 | 7.2 | 38300 | 13900 | 2500 U | 9160 |
| | 6/2/2016 | OU1 | NM | 5.3 | 0.21 | 1.7 | 0.032 J+ | 22.8 | 150 | 5 U | 214 | 2.1 U | 381 | 7.2 J | 39300 | 14700 | 2500 J | 9790 |
| SMW1 | 12/7/2015 | OU1 | NM | 4.9 | 170 | 1.4 | 86 | 18.3 | 143 | 5 U | 207 | 1 U | 350 | 7 | 39700 | 13500 | 3290 | 8480 |
| SMW2 | 12/7/2015 | OU1 | NM | 4.2 | 160 | 1.2 | 120 | 25 | 156 | 5 U | 228 | 1 U | 375 | 7.2 | 48400 | 14500 | 2910 | 9660 |
| SMW20 | 4/14/2014 | OU1 | NM | | | | | | | | | | | | 44700 | 15800 | | 7910 |
| | 12/9/2015 | OU1 | NM | 6 | 160 | 1.2 J | 150 J+ | 19.5 J+ | 172 | 5 U | 235 | 1 U | 396 | 7.3 | 45700 | 15900 | 3170 | 8650 |
| SMW3 | 12/7/2015 | OU1 | NM | 4.2 | 220 | 0.45 J+ | 5 U | 21.7 | 169 | 5 U | 223 | 1 U | 393 | 7.1 | 44600 | 15000 | 1920 | 9840 |
| | 6/1/2016 | OU1 | NM | 4.3 | 0.22 | 0.5 | 0.05 J+ | 22.7 | 164 | 5 U | 221 | 2.1 U | 401 | 6.9 J | 43600 | 15000 | 2500 J | 10200 |
| SMW4 | 4/14/2014 | OU1 | NM | | | | | | | | | | | | 60100 | 20400 | | 24200 |
| | 12/8/2015 | OU1 | NM | 3.5 | 210 | 0.12 J+ | 130 | 24.1 | 227 | 5 U | 279 | 1.4 J- | 503 | 7.7 | 53700 | 19600 | 3360 | 14700 |
| | 6/1/2016 | OU1 | NM | 8.4 | 0.2 | 0.1 J+ | 0.099 | 27.9 | 235 | 5 U | 308 | 2.1 J+ | 548 | 7.1 J | 58800 | 20500 | 3210 | 19500 |
| SMW5 | 12/8/2015 | OU1 | NM | 3.3 | 230 | 3.4 | 130 | 24.9 | 250 | 5 U | 324 | 1.5 J- | 549 | 7.9 | 62000 | 23400 | 4130 | 18000 |
| SMW6 | 12/8/2015 | OU1 | NM | 4.1 | 220 | 0.58 J+ | 92 | 22.8 | 204 | 5 U | 259 | 1 U | 429 | 7.8 | 53400 | 19400 | 2880 | 12100 |
| SMW7 | 12/8/2015 | OU1 | NM | 7.1 | 170 | 0.01 U | 5960 J+ | 42.3 | 242 | 5 U | 336 | 2.5 | 566 | 7.4 | 43700 | 16600 | 5960 | 54000 |
| | 6/1/2016 | OU1 | NM | 7.6 | 0.16 | 0.045 J+ | 0.084 | 47.2 | 254 | 5 U | 353 | 2.9 J+ | 618 | 7.1 J | 49400 | 17800 | 5590 | 51500 |
| SMW9 | 4/15/2014 | OU1 | NM | | | | | | | | | | | | 57000 | 16500 | | 393000 |
| | 12/9/2015 | OU1 | NM | 44.1 | 200 U | 0.1 J | 180 J+ | 271 J+ | 419 | 5 U | 1410 | 11.2 | 2070 | 7.4 | 61900 U | 18900 U | 13700 U | 337000 U |
| | 6/2/2016 | OU1 | NM | 56.4 | 0.22 | 0.47 | 0.17 | 815 | 463 | 5 U | 1470 | 11.1 J+ | 2210 | 7.3 J | 69300 | 21700 | 17600 | 373000 |
| MW1 | 4/15/2014 | OU2 | NM | | | | | | | | | | | | 58500 | 20300 | | 20100 |
| MW4 | 12/11/2015 | OU2 | NM | 5.8 | 220 | 0.72 J | 110 | 23.1 | 168 | 5 U | 223 | 1 U | 384 | 7.4 | 45200 | 14700 | 2500 U* | 12000 |
| MW7 | 12/14/2015 | OU2 | NM | 17.1 J- | 200 | 1.1 J | 120 | 33 | 205 | 5 U | 309 | 1 U | 523 | 6.8 | 51900 | 18000 | 5000 | 22700 |
| NFMW13 | 12/10/2015 | OU2 | NM | 10.1 | 170 | 0.63 J | 31 J+ | 38.1 J+ | 262 | 5 U | 340 | 1.3 | 584 | 7.6 | 70500 | 22900 | 2630 | 26200 |
| | 6/2/2016 | OU2 | NM | 5.7 | 0.27 | 0.4 | 0.074 | 36.3 | 221 | 5 U | 309 | 2.1 J+ | 547 | 7.2 J | 53900 | 17600 | 2500 J | 27400 |
| NFMW14 | 12/10/2015 | OU2 | NM | 5.8 | 150 | 0.87 J | 5 J+ | 18.4 J+ | 212 | 5 U | 264 | 1 U | 456 | 7.7 | 55600 | 17600 | 2500 U* | 16400 |
| NFMW15 | 12/10/2015 | OU2 | NM | 17.5 | 200 | 0.01 J | 90 J+ | 58.2 J+ | 383 | 5 U | 532 | 8.2 | 866 | 7.1 | 51700 | 20500 | 6040 | 108000 |
| | 6/3/2016 | OU2 | NM | 6.8 | 0.16 | 0.023 J+ | 0.044 J+ | 19.8 | 312 | 5 U | 374 | 8.1 J+ | 644 | 7 J | 46600 | 19100 | 4680 | 61500 |
| NFMW16 | 12/11/2015 | OU2 | NM | 15.8 | 200 U | 0.041 J | 420 | 107 | 266 | 35.4 | 551 | 4 | 842 | 8.5 | 7630 | 1370 | 3620 | 183000 |
| | 6/3/2016 | OU2 | NM | 13.4 | 0.18 | 0.033 J+ | 0.28 | 76.7 | 241 | 33.4 | 494 | 4.2 J+ | 776 | 8.7 J | 5110 | 911 | 3600 | 158000 |
| NFMW17 | 12/11/2015 | OU2 | NM | 7.6 | 230 | 1.1 J | 95 | 26.3 | 181 | 5 U | 237 | 1 U | 427 | 7.5 | 41900 U | 17500 U | 2790 U | 17300 |
| NFMW18 | 12/21/2015 | OU2 | NM | 17.7 | 130 | 0.012 UJ | 450 J | 30.2 | 142 | 5 U | 257 | 3.2 | 406 | 6.6 | 7460 J- | 3750 J- | 5880 | 71700 |
| | 6/3/2016 | OU2 | NM | 38.2 | 0.13 | 0.089 J+ | 0.31 | 33.1 | 133 | 5 U | 295 | 6.3 J+ | 497 | 7.4 J | 9840 | 5310 | 6630 | 76900 |
| NFMW5 | 4/15/2014 | OU2 | NM | | | | | | | | | | | | 56500 | 18500 | | 13300 |
| | 12/10/2015 | OU2 | NM | 4.8 | 150 | 0.16 J | 34 J+ | 27.3 J+ | 198 | 5 U | 251 | 1 U | 438 | 7.3 | 48400 | 15800 | 2500 U* | 15600 |
| | 6/2/2016 | OU2 | NM | 7.7 | 0.22 | 0.18 J+ | 0.039 J+ | 26.8 | 211 | 5 U | 268 | 2.1 U | 489 | 7.3 J | 53300 | 17700 | 2500 J | 17300 |
| NFMW6 | 4/15/2014 | OU2 | NM | | | | | | | | | | | | 44400 | 21300 | | 41400 |
| | 12/18/2015 | OU2 | NM | 11 | 200 | 0.022 J+ | 200 J | 40.8 | 244 | 5 U | 336 | 2.1 | 563 | 7.4 | 35900 J- | 17500 J- | 9270 | 45100 |
| ATMW6 | 4/14/2014 | OU3 | NM | | | | | | | | | | | | 19600 | 5080 | | 164000 |
| | 12/15/2015 | OU3 | NM | 16.4 | 200 | 0.014 UJ | 950 | 101 | 252 | 5 U | 540 | 10.5 | 770 | 7.4 | 11600 | 3080 | 12000 | 152000 |
| | 6/2/2016 | OU3 | NM | 18.3 | 0.33 | 0.02 J+ | 0.81 | 68.9 | 220 | 5 U | 443 | 9 J+ | 657 | 7.7 J | 7590 | 2130 | 9920 | 124000 |
| NFMW10 | 12/17/2015 | OU3 | NM | 22.7 J | 300 U | 0.016 J+ | 2800 | 444 | 692 | 5 U | 1540 | 29.3 | 2310 | 7.8 | 38400 | 14300 | 26100 | 379000 |
| | 6/7/2016 | OU3 | NM | 26.4 | 0.28 | 0.098 J+ | 3 J | 475 | 686 | 8.3 U | 1980 | 21.8 | 2350 | 7.6 J | 33400 | 13200 | 27600 | 431000 |
| NFMW11 | 12/17/2015 | OU3 | NM | 14.5 J | 300 | 0.02 J | 1300 | 115 | 471 | 5 U | 752 | 9.6 | 1180 | 7.6 | 29200 | 9470 | 13800 | 208000 |
| | 6/7/2016 | OU3 | NM | 17.6 | 0.25 | 0.098 J+ | 1.5 J | 214 | 471 | 5 U | 1590 | 8.6 J+ | 1360 | 7.1 J | 44600 | 15300 | 17300 | 224000 |
| NFMW12 | 12/9/2015 | OU3 | NM | 5 | 160 | 0.01 U | 17 J+ | 34.9 J+ | 208 | 5 U | 271 | 1 U | 471 | 7.3 | 56500 | 18200 | 2500 U | 17000 |
| NFMW19 | 12/17/2015 | OU3 | NM | 23.5 J | 500 U | 0.01 U | 470 | 2020 | 351 | 5 U | 3500 | 17 | 4350 | 6.8 | 341000 | 85400 | 47300 | 574000 |
| | 6/7/2016 | OU3 | NM | 28.4 | 1 J | 0.098 J+ | 0.57 J | 2040 | 422 | 5 U | 2840 | 16.5 J+ | 4280 | 6.8 J | 292000 | 85000 | 44700 | 560000 |
| NFMW1D | 4/16/2014 | OU3 | NM | | | | | | | | | | | | 115000 | 103000 | | 530000 |
| | 12/18/2015 | OU3 | NM | 57.9 | 190 | 0.011 UJ | 2900 J | 21.9 | 1330 | 8.3 U | 1580 | 41.8 | 2480 | 7.3 | 62100 J- | 57300 J- | 20200 | 472000 |
| | 6/8/2016 | OU3 | NM | 57.6 | 0.22 | 0.098 J+ | 2.8 J | 44.2 | 1290 | 8.3 U | 1710 | 38.8 | 2580 | 7.3 J | 65500 | 64500 | 23200 | 443000 |
| NFMW1S | 4/16/2014 | OU3 | NM | | | | | | | | | | | | 6510 | 5000 U | | 793000 |
| NFMW2 | 4/15/2014 | OU3 | NM | | | | | | | | | | | | 31200 | 12900 | | 90000 |
| | 12/18/2015 | OU3 | NM | 11.8 | 190 | 0.039 J | 290 J | 90.2 | 246 | 5 U | 412 | 3.7 | 691 | 7.2 | 39900 J- | 17400 J- | 7760 | 71400 |
| | 6/8/2016 | OU3 | NM | 12.4 | 0.33 | 0.098 J+ | 0.4 J | 72.7 | 240 | 5 U | 408 | 4.1 J+ | 643 | 7.4 J | 38700 | 15500 | 8560 | 70900 |
| NFMW20 | 12/17/2015 | OU3 | NM | 32 J | 500 U | 0.052 J+ | 600 | 1480 | 561 | 5 U | 3080 | 6.8 | 4190 | 7.2 | 186000 | 60500 | 36000 | 755000 |
| | 6/7/2016 | OU3 | NM | 34.6 | 0.5 J | 0.098 J+ | 0.64 J | 1480 | 594 | 5 U | 3380 | 28.5 | 4060 | 6.9 J | 175000 | 47000 | 34800 | 648000 |
| NFMW3 | 4/16/2014 | OU3 | NM | | | | | | | | | | | | 195000 | 110000 | | 848000 |
| | 12/18/2015 | OU3 | NM | 116 | 250 | 0.021 J | 2600 J | 23.4 | 2420 | 12.5 U | 2980 | 53.1 | 4470 | 7.2 | 177000 J- | 94100 J- | 24400 | 897000 |
| | 6/8/2016 | OU3 | NM | 108 | 0.24 | 0.098 J+ | 2.6 J | 33.1 | 2590 | 12.5 U | 3020 | 55.7 | 4590 | 7.3 J | 152000 | 106000 | 36500 | 840000 |
| NFMW4 | 4/15/2014 | OU3 | NM | | | | | | | | | | | | 100000 | 25700 | | 146000 |
| | 12/16/2015 | OU3 | NM | 5.9 | 250 | 0.014 UJ | 270 | 63.5 | 308 | 5 U | 477 | 12.4 | 732 | 7.1 | 35100 | 9520 | 12800 | 115000 |
| | 6/6/2016 | OU3 | NM | 6.3 | 0.28 | 0.01 U | 0.44 J | 101 | 325 | 5 U | 568 | 12.6 J+ | 848 | 6.5 J | 41000 | 10800 | 14900 | 116000 |
| NFMW7 | 12/9/2015 | OU3 | NM | 94.6 | 210 | 0.011 J | 1300 J+ | 16.3 J+ | 3130 | 5 U | 3640 | 66 | 5380 | 7.4 | 223000 | 103000 | 23400 | 1E+06 |
| | 6/8/2016 | OU3 | NM | 72.7 | 0.19 | 0.01 U | 1.2 J | 94.7 | 2020 | 12.5 U | 2640 | 41.9 | 3890 | 7.5 J | 103000 | 68100 | 17000 | 773000 |
| NFMW8 | 12/17/2015 | OU3 | NM | 13.4 J | 210 | 0.009 UJ | 200 | 1 U | 1040 | 5 U | 1140 | 24 | 1860 | 6.9 | 98700 | 41000 | 20900 | 269000 |
| | 6/8/2016 | OU3 | NM | 18.9 | 0.12 | 0.01 J | 1.2 J | 2.3 | 1190 | 8.3 U | 1330 | 25.2 | 2120 | 6.5 J | 118000 | 54300 | 22900 | 285000 |
| NFMW9 | 12/21/2015 | OU3 | NM | 178 | 430 | 0.12 | 1700 J | 5.1 | 2420 | 12.5 U | 3140 | 114 | 4750 | 7.3 | 107000 J- | 118000 J- | 48500 | 909000 |
| | 6/8/2016 | OU3 | NM | 56.2 | 0.23 | 0.01 U | 1.7 J | 3.9 | 1050 | 5 U | 1290 | 30 | 2140 | 7.4 J | 38200 | 46400 | 25300 | 344000 |
| SMW10 | 12/14/2015 | OU3 | NM | 63.8 J- | 300 U | 0.038 J+ | 640 | 440 | 598 | 5 U | 1520 | 24.7 | 2230 | 7.4 | 52200 | 16400 | 15700 | 411000 |
| | 6/3/2016 | OU3 | NM | 67.2 | 0.24 | 0.025 J+ | 0.6 | 372 | 514 | 5 U | 1270 | 19.2 J+ | 1880 | 7.4 J | 41800 | 13900 | 16600 | 344000 |
| SMW11 | 12/14/2015 | OU3 | NM | 51.3 J- | 300 U | 0.03 J+ | 1200 | 868 | 840 | 5 U | 2380 | 43.3 | 3390 | 7.8 | 87000 | 23700 | 27600 | 643000 |
| | 6/3/2016 | OU3 | NM | 47 | 0.24 | 0.04 J+ | 0.9 | 983 | 833 | 5 U | 2420 | 44.3 | 3410 | 7.3 J | 92600 | 27000 | 31600 | 592000 |
| SMW12 | 12/14/2015 | OU3 | NM | 31.7 J- | 300 U | 0.037 J+ | 890 | 1280 | 681 | 5 U | 2720 | 38.4 | 3710 | 7.7 | 103000 | 30000 | 30200 | 686000 |
| | 6/6/2016 | OU3 | NM | 28.8 | 0.5 J | 0.098 J+ | 0.92 J | 1440 | 610 | 5 U | 2920 | 34.6 | 3890 | 7.4 J | 118000 | 36000 | 38200 | 647000 |
| SMW13 | 12/15/2015 | OU3 | NM | 34.5 | 300 U | 0.042 J+ | 930 | 652 | 777 | 5 U | 1950 | 31.3 | 2840 | 7.4 | 74400 | 22100 | 24700 | 551000 |
| | 6/6/2016 | OU3 | NM | 35.8 | 0.2 J | 0.098 J+ | 1 J | 702 | 706 | 5 U | 2000 | 29.6 | 2810 | 7.3 J | 70900 | 21800 | 26600 | 500000 |
| SMW14 | 12/15/2015 | OU3 | NM | 41.5 | 300 U | 2.1 | 700 | 740 | 716 | 5 U | 2080 | 25.6 | 2950 | 7.4 | 102000 | 30800 | 20300 | 500000 |
| | 6/6/2016 | OU3 | NM | 49.5 | 0.3 J | 0.098 J+ | 1 J | 944 | 781 | 5 U | 2390 | 21.5 | 3260 | 6.2 J | 121000 | 36800 | 19500 | 539000 |
| SMW15 | 4/16/2014 | OU3 | NM | | | | | | | | | | | | 185000 | 56400 | | 370000 |
| | 12/15/2015 | OU3 | NM | 18.8 | 1000 U | 0.5 | 53 | 2320 | 60 | 5 U | 3980 | 8.2 | 4540 | 5.9 | 414000 | 148000 | 63800 | 540000 |
| | 6/6/2016 | OU3 | NM | 23 | 1 J | 0.098 J+ | 0.1 J+ | 2650 | 88.8 | 5 U | 4030 | 10.5 J+ | 4440 | 6.1 J | 356000 | 162000 | 71400 | 480000 |
| SMW16 | 4/15/2014 | OU3 | NM | | | | | | | | | | | | 160000 | 41400 | | 586000 |
| | 12/16/2015 | OU3 | NM | 60.3 | 200 U | 0.15 J+ | 2100 | 438 | 1620 | 12.5 U | 2590 | 10.3 | 3770 | 7.3 | 119000 | 33100 | 20600 | 573000 |
| | 6/7/2016 | OU3 | NM | 63 | 0.2 J | 0.098 J+ | 1.3 J | 809 | 1310 | 8.3 U | 1760 | 42.4 | 3850 | 6.9 J | 149000 | 43500 | 30700 | 667000 |
| SMW17 | 12/16/2015 | OU3 | NM | 35.5 | 200 | 0.022 J+ | 2300 | 48.7 | 1230 | 12.5 U | 1600 | 48.8 | 2420 | 7.7 | 52100 | 15000 | 16500 | 537000 |
| | 6/6/2016 | OU3 | NM | 38.2 | 0.29 | 0.098 J+ | 1.8 J | 61.2 | 1280 | 8.3 U | 1760 | 35.8 | 2540 | 7.3 J | 52200 | 16000 | 16700 | 438000 |
| SMW18 | 12/16/2015 | OU3 | NM | 7.4 | 300 U | 1.2 | 200 | 734 | 262 | 5 U | 1460 | 13.2 | 2100 | 7 | 67000 | 18200 | 17400 | 303000 |
| SMW19 | 12/16/2015 | OU3 | NM | 25 | 210 | 0.13 J+ | 1000 | 276 | 734 | 5 U | 1290 | 17.8 | 2020 | 7.4 | 43700 | 13800 | 17300 | 316000 |
| | 6/7/2016 | OU3 | NM | 26.4 | 0.2 | 0.098 J+ | 1.5 J | 386 | 698 | 5 U | 1360 | 15.1 J+ | 2170 | 7.2 J | 50100 | 15600 | 23600 | 369000 |
| SMW8 | 12/9/2015 | OU3 | NM | 4.2 | 100 U | 0.025 UJ | 200 J+ | 27.2 J+ | 175 | 5 U | 240 | 2.3 | 385 | 7.3 | 39900 | 12300 | 5050 | 22600 |
| TW2R | 4/15/2014 | OU3 | NM | | | | | | | | | | | | 64000 | 15700 | | 482000 |
| | 12/15/2015 | OU3 | NM | 20.6 | 500 U | 0.018 UJ | 450 | 1140 | 570 | 5 U | 2430 | 17.2 | 3420 | 7.7 | 68100 | 18500 | 20800 | 392000 |
| | 6/6/2016 | OU3 | NM | 25.1 | 0.5 J | 0.098 J+ | 0.46 J | 944 | 636 | 5 U | 2160 | 20.2 J+ | 2970 | 7.1 J | 82100 | 22500 | 33300 | 514000 |
| TW5R | 12/14/2015 | OU3 | NM | 53.2 J- | 300 U | 0.006 UJ | 10 U | 479 | 498 | 5 U | 1370 | 10 | 2000 | 7.3 | 108000 | 36300 | 4910 J- | 286000 |
| WFB1 | 12/21/2015 | OU3 | NM | 8.1 | 190 | 0.14 J+ | 96 J | 11.9 | 208 | 5 U | 225 | 2.4 | 426 | 6.8 | 47600 J- | 16200 J- | 3750 | 12200 |
| GWD1 (CountyMW) | 12/8/2015 | OU1 | DUP | 7.1 | 280 | 2.1 J | 170 | 34.9 | 177 | 5 U | 255 | 1 U | 461 | 7.5 | 45300 | 18800 | 3320 | 18600 |
| GWD2 (MW4) | 12/11/2015 | OU2 | DUP | 5.8 | 220 | 0.72 J | 110 | 23.1 | 168 | 5 U | 223 | 1 U | 384 | 7.4 | 45200 | 14700 | 2500 U* | 12000 |
| GWD1 (NFMW15) | 6/3/2016 | OU2 | DUP | 6.8 | 0.16 | 0.023 J+ | 0.044 J+ | 19.8 | 312 | 5 U | 374 | 8.1 J+ | 644 | 7 J | 46600 | 19100 | 4680 | 61500 |
| FR-MW (SMW-16) | 4/15/2014 | OU3 | DUP | | | | | | | | | | | | 150000 | 37400 | | 603000 |
| GWD3 (NFMW9) | 12/21/2015 | OU3 | DUP | 178 | 430 | 0.12 | 1700 J | 5.1 | 2420 | 12.5 U | 3140 | 114 | 4750 | 7.3 | 107000 J- | 118000 J- | 48500 | 909000 |
| GWD2 (SMW17) | 6/6/2016 | OU3 | DUP | 38.2 | 0.29 | 0.098 J+ | 1.8 J | 61.2 | 1280 | 8.3 U | 1760 | 35.8 | 2540 | 7.3 J | 52200 | 16000 | 16700 | 438000 |

**Notes:** Anions analyzed by EPA Method 300.0 (chloride, fluoride, sulfate), 353.2 (nitrate+nitrite), SM 2320B (alkalinity).
General water quality data analyzed by SM 2540-C (TDS), SM 5310C (TOC), Electrometric 4500H+pH (Specific Conductance and pH).
Cations analyzed by EPA Method 6010.
J - Concentration is considered estimated. "+" indicates value may be biased high. "-" indicates value may be biased low.
U - Concentration is below the reporting limit, reporting limit shown. "*" indicates the reporting limit was adjusted to equal the concentration in the blank.
blue font - June 2016 Sampling Event

**Acronyms:**
DUP - field duplicate
GWD - groundwater duplicate sample
ID - identification
mg/L - milligrams per liter
NM - natural sample
NO2+NO3 - nitrite plus nitrate
OU - Operable Unit
SpCond - specific conductance
su - standard units
TDS - total dissolved solids
TOC - total organic carbon
ug/L - micrograms per liter
µS/cm - micro Siemens per centimeter



DRAFT (Version 1)