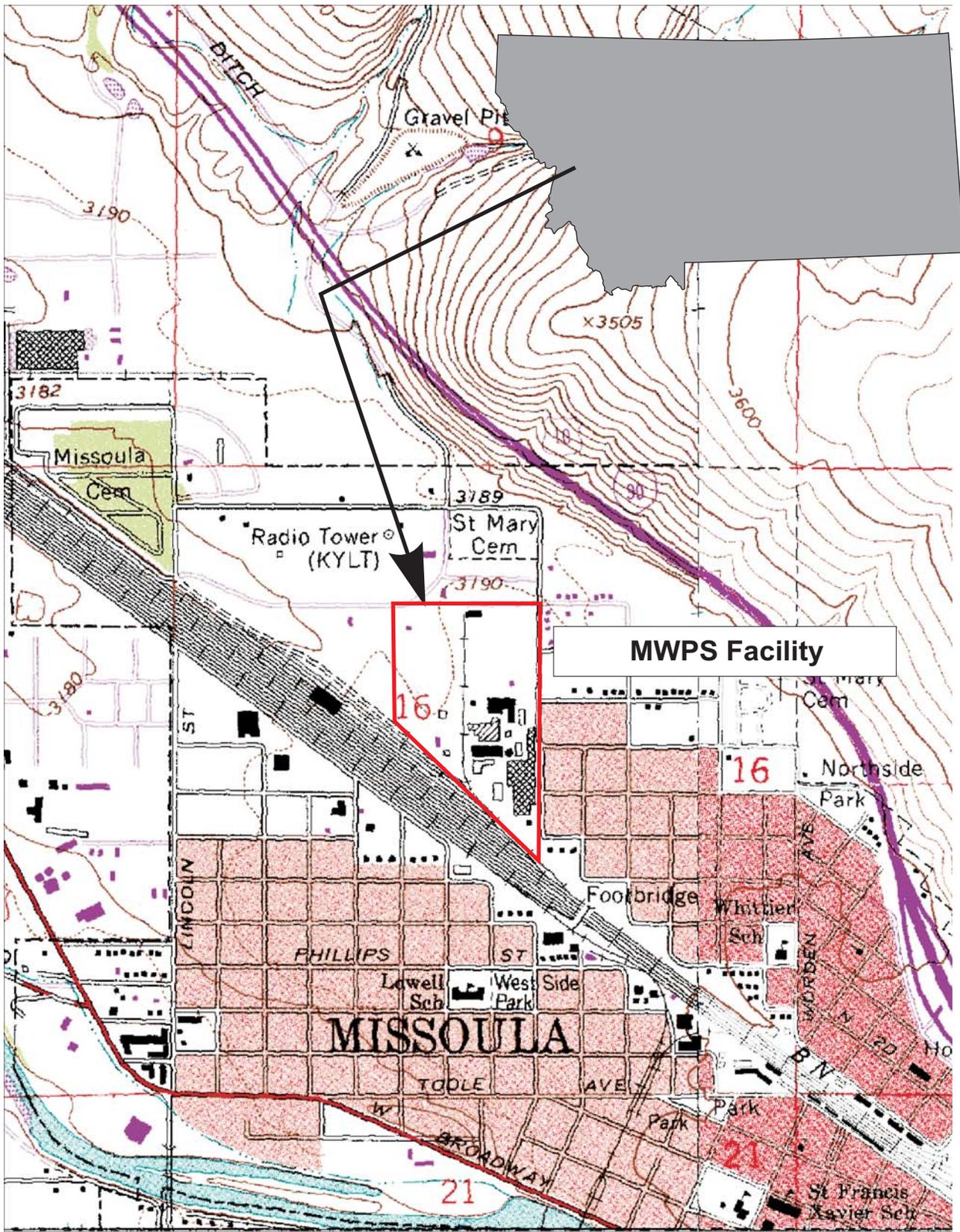


## **FIGURES**



Map source:  
 Delorme 3D Topoquads  
 USGS 7.5 minute Map

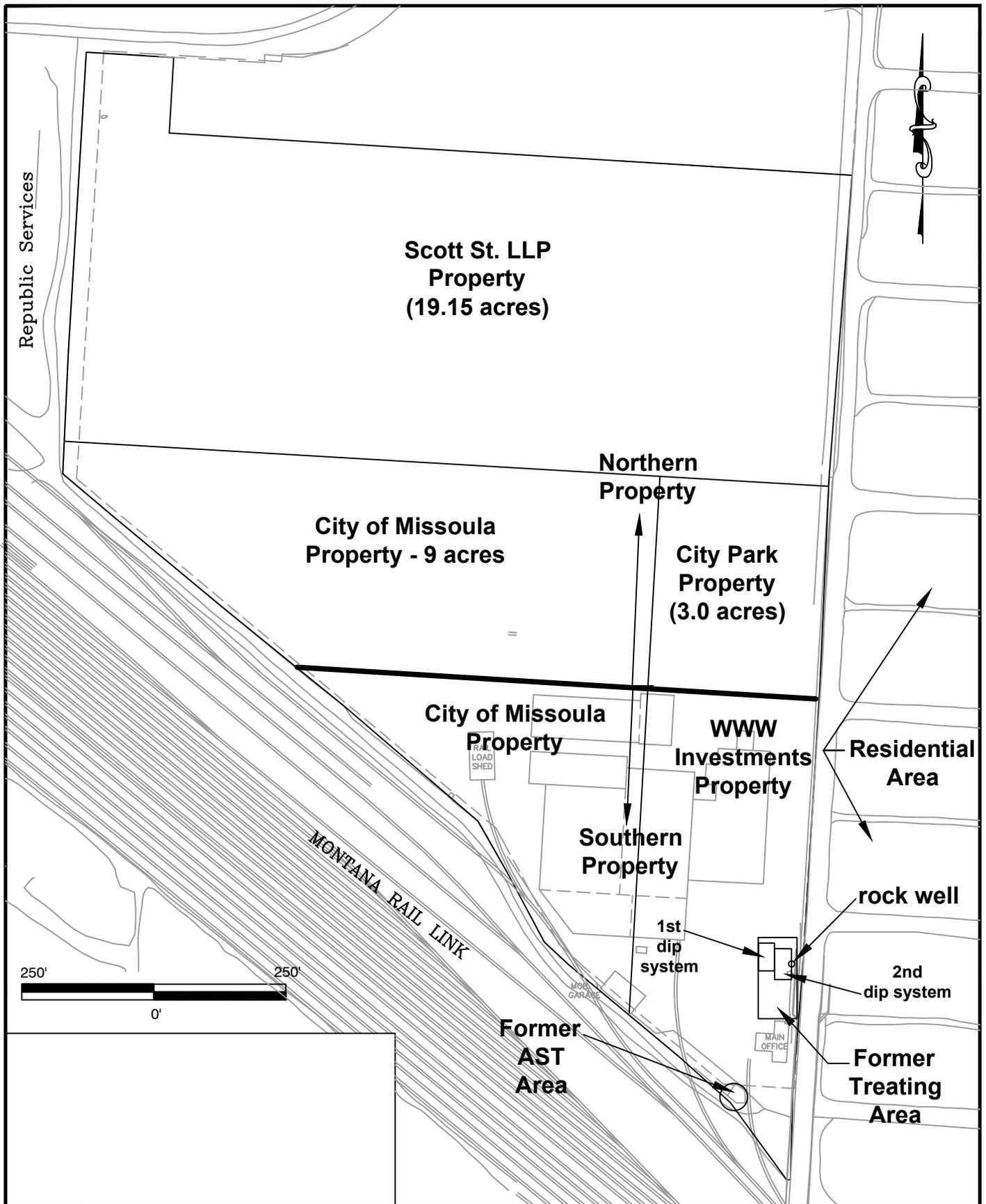
Missoula White Pine Sash Facility

**FACILITY  
 LOCATION MAP**

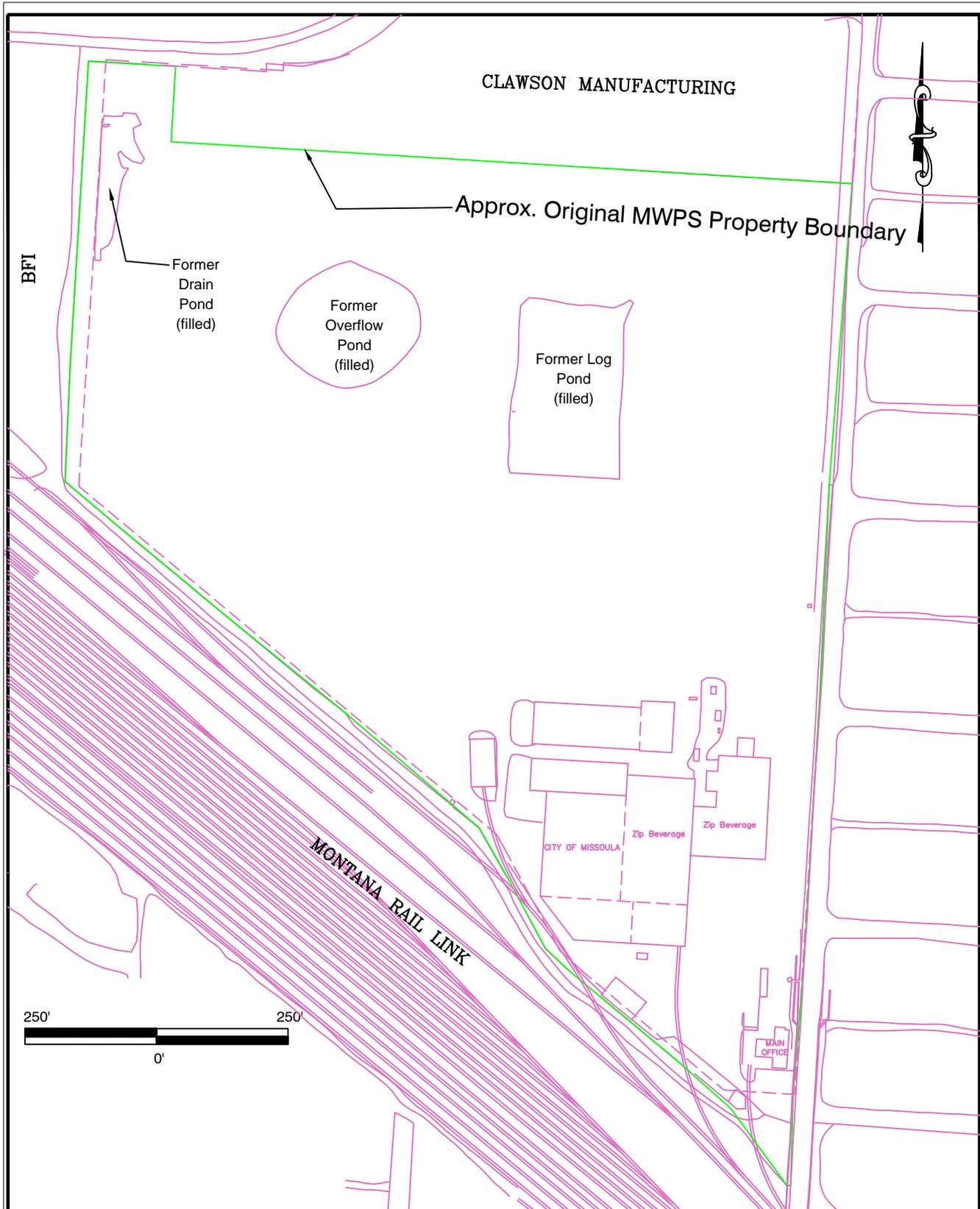
DOUGLASS, INC.

1/11/13

**FIGURE 1**



MISSOULA WHITE PINE SASH FACILITY	Record of Decision		PROPERTY OWNERSHIP MAP	
Douglass, Inc.	Dwg: Fig 2 Property Owner Map.dwg		Date: 12/9/13	FIGURE 2



Missoula White Pine Sash Facility	Record of Decision	MISSOULA WHITE PINE SASH Log Pond, Drain Pond, Overflow Pond	
Douglass, Inc.		DATE: 12/9/13	FIGURE 3

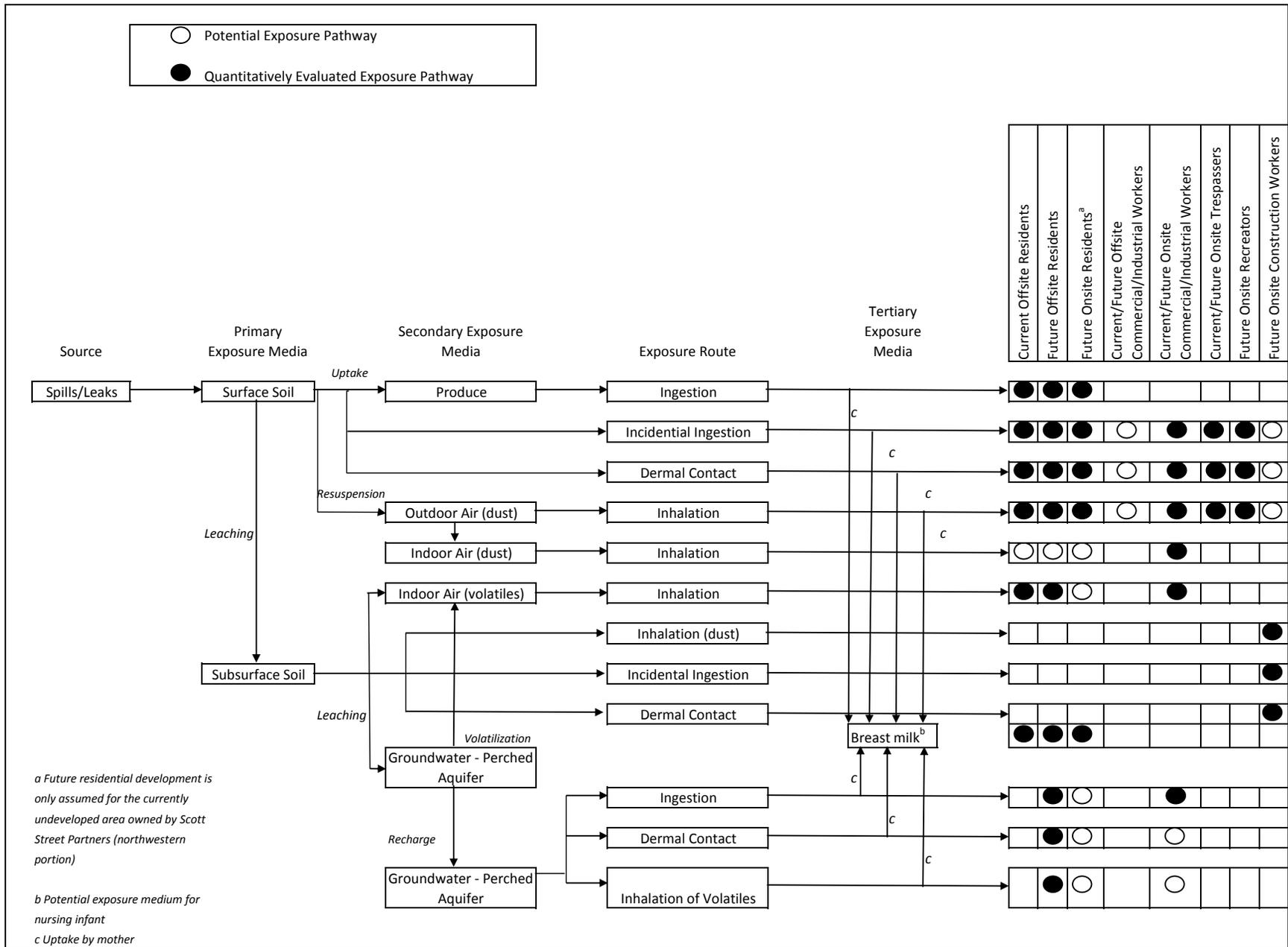
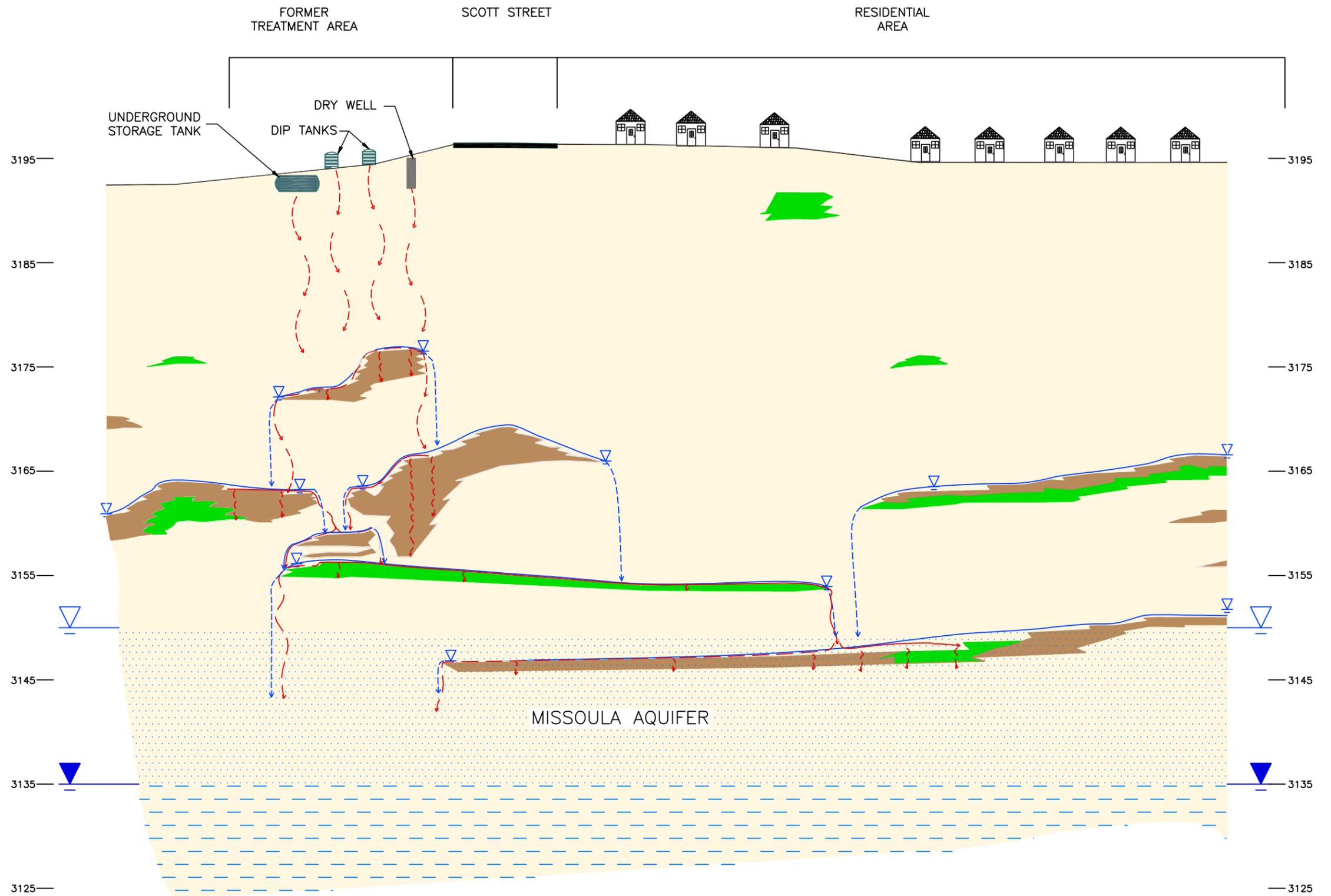


Figure 4  
Site Conceptual Exposure Model - Missoula White Pine Sash Facility

NOTES:  
 1. GROUNDWATER HAS BEEN ENCOUNTERED INTERMITTENTLY DURING DRILLING AND IN MONITORING WELLS FROM 0.5 FEET TO 3 FEET ABOVE THE DISCONTINUOUS CONFINING LAYERS UNDERLYING THE FACILITY. THIS PERCHED GROUNDWATER, WHEN PRESENT AND MEASURABLE, APPEARS TO FLUCTUATE SEASONALLY ABOVE SOME, BUT NOT ALL, OF THE CONFINING LAYERS. FOR MORE INFORMATION ON PERCHED GROUNDWATER AT THE FACILITY, REFER TO THE SEMI-ANNUAL GROUNDWATER MONITORING REPORTS FOR THE FACILITY.  
 2. GROUNDWATER OF THE MISSOULA AQUIFER HAS BEEN OBSERVED BETWEEN 45 AND 60 FEET BELOW GROUND SURFACE AND IS SUBJECT TO SEASONAL FLUCTUATIONS UP TO 15 FEET.

- LEGEND:
- ASPHALT
  - GW/SW/SM = GRAVEL AND SAND DOMINATED LITHOLOGY
  - ML/SC = SILT DOMINATED LITHOLOGY
  - CL/CLS = CLAY DOMINATED LITHOLOGY
  - PERCHED GROUNDWATER TABLE
  - MISSOULA AQUIFER - ~45 Ft BELOW HIGH WATER TABLE GROUND SURFACE
  - MISSOULA AQUIFER - ~60 Ft BELOW LOW WATER TABLE GROUND SURFACE
  - PERCHED GROUNDWATER SEEPAGE
  - PENTACHLOROPHENOL IN SOLUTION WITH DIESEL OR MINERAL SPIRITS
  - MISSOULA AQUIFER - AREA OF GROUNDWATER FLUCTUATION
  - MISSOULA AQUIFER



ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL

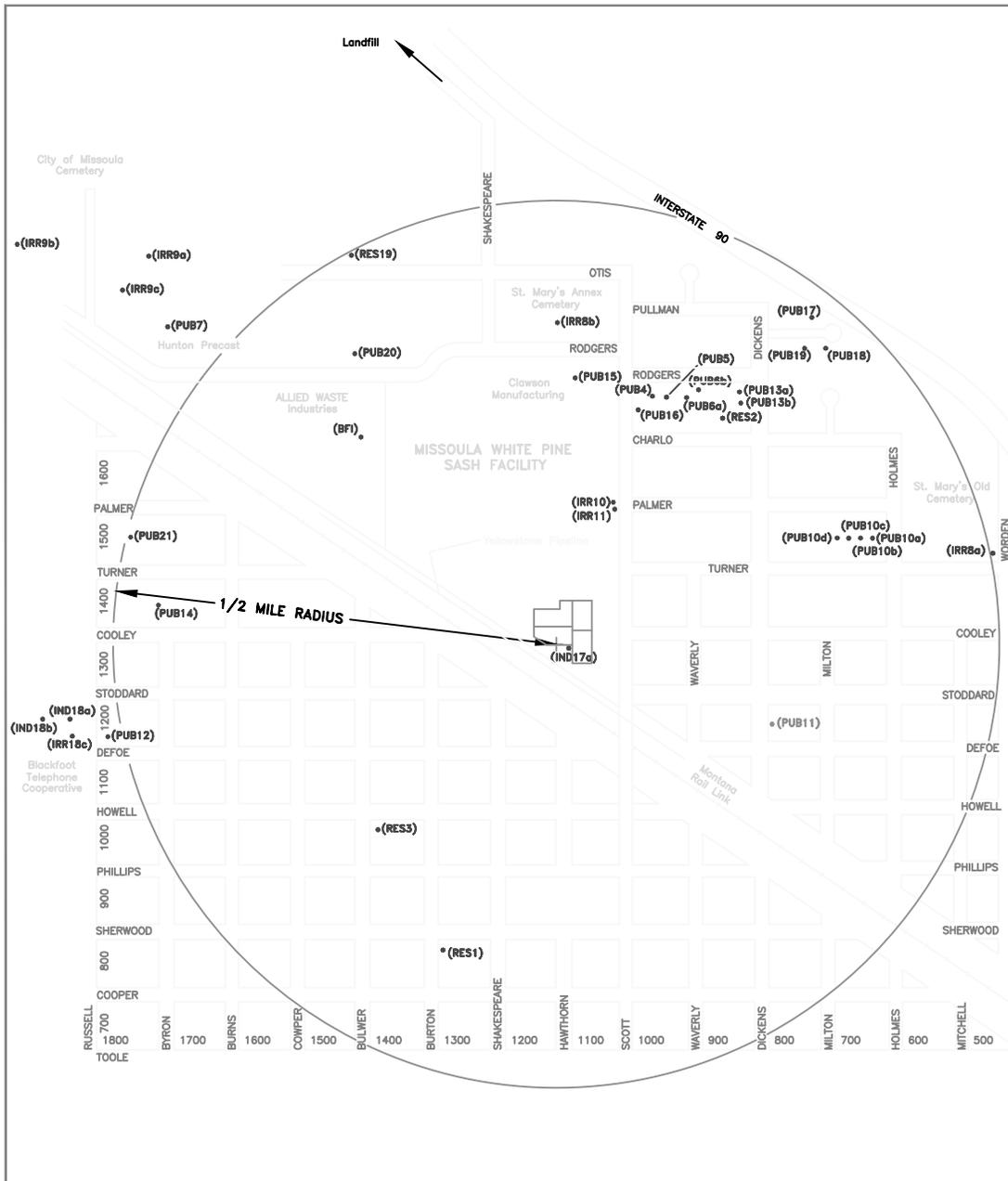
\* NOT TO SCALE



MISSOULA WHITE PINE SASH FACILITY  
 MISSOULA, MT

Figure 5  
 CONCEPTUAL GEOLOGIC  
 SITE MODEL

DATE: FEBRUARY 2015



WELL NUMBER	WELL LOCATION	OWNER	CONTACT/PHONE #	USAGE	TOTAL DEPTH
RES1	1337 Sherwood (W of house)	Jeff Friese	Jeff Friese/541-8886	Private	79.5
RES2	1000 Charlo (N of house next to pole)	Curtis Clark	Curtis Clark/543-1968	Private	90
RES3	1439 Howell (E of house)	Robert Saurer	Robert Saurer/543-3654	Private	59
PUB4	1007-1015 Rodgers (S of apt. building)	Richard Wilcom	Richard Wilcom/549-6106	Private	-
PUB5	1005 Rodgers (S of apt. building)	Matt Burnett	Matt Burnett/721-0847	Private	70
PUB6a	917 Rodgers (E of apt. building)	Star Properties	Jim Frey/549-2260	Private	95.5
PUB6b	913 Rodgers (pumphouse NE of building)	Star Properties	Jim Frey/549-2260	Private	92
PUB7	1700 Rodgers (N of concrete plant)	Hunton Precast	Ernest Hunton/543-8840	Private	90
IRR8a	St. Mary's Old Cemetery (white pumphouse)	St. Mary's Cemetery	Mike Hamlin/543-7951	Irrigation	-
IRR8b	St. Mary's Annex Cemetery (white pumphouse)	St. Mary's Cemetery	Mike Hamlin/543-7951	Irrigation	-
IRR9a	City of Missoula Cemetery (well #1)	City of Missoula	Doug Waters/721-2435	Irrigation	152
IRR9b	City of Missoula Cemetery (well #2)	City of Missoula	Doug Waters/721-2435	Irrigation	126
IRR9c	City of Missoula Cemetery (red standpipe)	City of Missoula	Doug Waters/721-2435	Irrigation	95
BFI	Allied Waste, 1501 Rodgers, east of bldg	Allied Waste	David Seeburger/728-9572	Private	120
PUB10a	701 Palmer (S of apt. building)	Gary McDermott	Gary McDermott/434-5186	Public	101
PUB10b	711 Palmer (S. of apt. building)	Gary McDermott	Gary McDermott/434-5186	Public	101
PUB10c	721 Palmer (S of apt. building)	William O'Neill	William O'Neill/626-5963	Public	99
PUB10d	731 Palmer (S of apt. building)	William O'Neill	William O'Neill/626-5963	Public	99
PUB11	Dickens and Defoe CLOSED	Mountain Water	Logan Malinia/721-5570	Public	131
PUB12	1200 block North Russell (E side of street)	Mountain Water	Logan Malinia/721-5570	Public	109.5
PUB13a	907 Rodgers	Brace Hayden	Brace Hayden/546-1603	Private	100
PUB13b	909 Rodgers	Ted Schuster	Ted Schuster/543-4962	Private	100
PUB14	Hollywood Trailer Court (next to trailer 52)	Jim Caples	Bob Serwacki/542-3360	Private	-
PUB15	Clawson Manufacturing (In yard next to pole)	Gene Clawson	Gene Clawson/544-3441	Private	103
PUB16	1706 Scott Street (In basement)	Johnson 34 Properties	Grizzly Prop Mgmt/542-2060	Private	92
IND17a	Zip Beverage (In pumphouse south of bldg)	Zip Beverage	Bill Watkins/721-9543	Fire	125
IRR10	1309 Scott St. - White Pine Park	City of Missoula	Dave Shaw/552-6264	Irrigation	86
IRR11	1309 Scott St. - White Pine Park	City of Missoula	Dave Shaw/552-6264	Irrigation	96
IND18a	1221 North Russell (NE of new building)	Blackfoot Telephone	Cyrus Bowman/721-2121	Industrial	118.5
IND18b	1221 North Russell (NW of new building)	Blackfoot Telephone	Cyrus Bowman/721-2121	Industrial	119
IRR18c	1221 North Russell (SSE of new building)	Blackfoot Telephone	Cyrus Bowman/721-2121	Irrigation	80
RES19	1600 Otis (In pit under SE corner of house)	Kenneth Sandau	George Sandau/549-8068	Private	-
PUB17	820 Rodgers	Howard Horton	Prof. Prop. Mgmt/721-8990	Public	112
PUB18	811 Rodgers	Howard Horton	Prof. Prop. Mgmt/721-8990	Public	118
PUB19	821 Rodgers	Howard Horton	Prof. Prop. Mgmt/721-8990	Public	120
PUB20	1620 Rodgers	Joe Broake	Joe Broake/549-6148	Private	98
PUB21	Cedar Villas Apartments (center of complex)	Cedar Villas LLP	Chris Thomas/721-5186	Irrigation	100
PUB22	1734 Stoddard (south side of apt building)	Bob Decou	Bob Decou/728-5376	Private	72

- Total depth is unknown.

**LEGEND**

•(RES3) WATER WELL LOCATION



NOT-TO-SCALE

<b>MISSOULA WHITE PINE SASH FACILITY</b>	<b>PRIVATE WELL LOCATIONS WITHIN 1/2 MILE OF MWPS SITE</b>	
	<b>Record of Decision</b>	
Douglass, Inc.	DRAWN BY: BCD	DATE: 12/9/13
		FIGURE: <b>6</b>

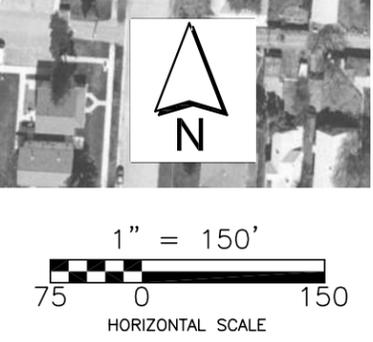


- LEGEND:**
- SOIL GAS/ISCO/MONITORING WELL LOCATION
  - ABANDONED MONITORING WELL LOCATION
  - PENTACHLOROPHENOL ABOVE CLEANUP LEVELS
  - PETROLEUM HYDROCARBON FRACTIONS ABOVE CLEANUP LEVELS
  - DIOXIN ABOVE CLEANUP LEVELS
  - METALS ABOVE CLEANUP LEVELS
  - 1,2,4-TRIMETHYLBENZENE ABOVE CLEANUP LEVELS

**NOTES:**

1. GROUNDWATER DATA USED TO GENERATE THE LATERAL EXTENT OF THE LISTED CONTAMINANTS OF CONCERN REPRESENT THE MAXIMUM DETECTED CONCENTRATION FOR A GIVEN WELL OR SOIL BORING FROM 2006 TO PRESENT.
2. AT LOCATIONS WHERE THE CONTAMINANT WAS NOT DETECTED ABOVE A REPORTING LIMIT GREATER THAN THE SSCL, THE CONCENTRATION WAS ASSUMED TO BE EQUAL TO THE REPORTING LIMIT.
3. THE FOLLOWING CONTAMINANTS OF CONCERN WERE NOT DETECTED ABOVE THEIR RESPECTIVE SSCLs: 2-METHYLNAPHTHALENE, ARSENIC, IRON, LEAD, C9-C10 AROMATICS, C9-C12 ALIPHATICS, AND C9-C18 ALIPHATICS.

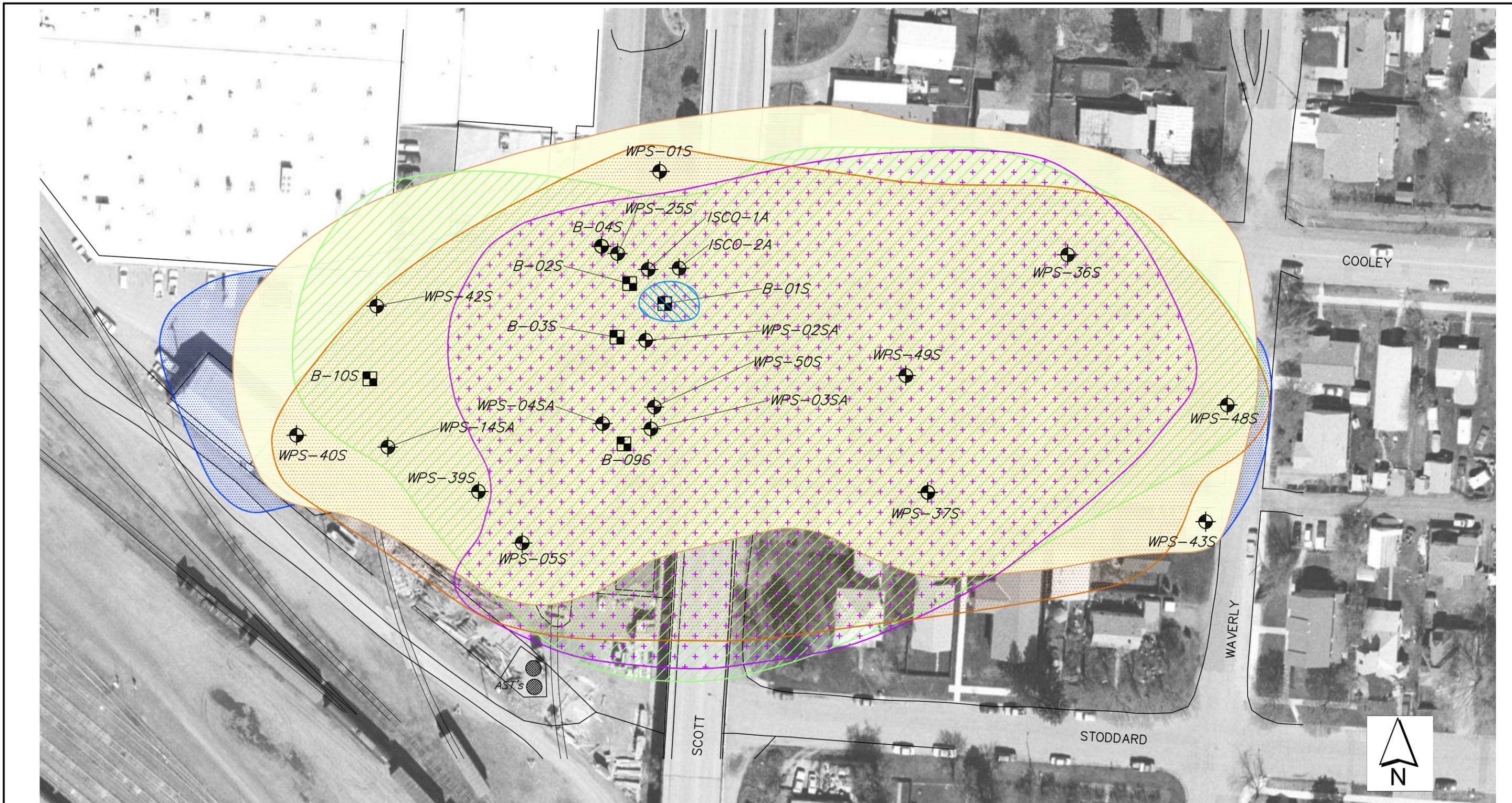
\* C11-C12 ALIPHATICS WERE NOT DETECTED ABOVE LABORATORY REPORTING LIMITS; HOWEVER THE REPORTING LIMIT WAS GREATER THAN THE SSCL. THE EXTENT SHOWN MAY NOT BE REPRESENTATIVE OF ACTUAL GROUNDWATER CONDITIONS.



MISSOULA WHITE PINE SASH FACILITY  
MISSOULA, MT

Figure 7  
MAXIMUM POTENTIAL LATERAL EXTENT OF GROUNDWATER  
EXCEEDING SSCLs - MISSOULA AQUIFER

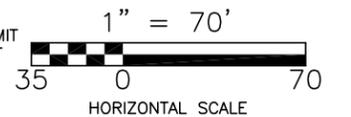
DATE: FEBRUARY 2015



	SOIL GAS/ISCO/MONITORING WELL LOCATION		DIOXIN ABOVE CLEANUP LEVELS
	SOIL BORING LOCATION		METALS ABOVE CLEANUP LEVELS
	PENTACHLOROPHENOL ABOVE CLEANUP LEVELS		1,2,4-TRIMETHYLBENZENE ABOVE CLEANUP LEVELS
	PETROLEUM HYDROCARBON FRACTIONS ABOVE CLEANUP LEVELS		2-METHYLNAPHTHALENE ABOVE CLEANUP LEVELS

**NOTES:**  
 1. GROUNDWATER DATA USED TO GENERATE THE LATERAL EXTENT OF THE LISTED CONTAMINANTS OF CONCERN REPRESENT THE MAXIMUM DETECTED DATA CONCENTRATION FOR A GIVEN WELL OR SOIL BORING FROM 2006 TO PRESENT.  
 2. AT LOCATIONS WHERE THE CONTAMINANT WAS NOT DETECTED ABOVE A REPORTING LIMIT GREATER THAN THE SSCL, THE CONCENTRATION WAS ASSUMED TO BE EQUAL TO THE REPORTING LIMIT.

\* C11-C22 ALIPHATICS WERE NOT DETECTED ABOVE LABORATORY REPORTING LIMITS; HOWEVER THE REPORTING LIMIT WAS GREATER THAN THE SSCL. THE EXTENT SHOWN MAY NOT BE REPRESENTATIVE OF ACTUAL GROUNDWATER CONDITIONS.



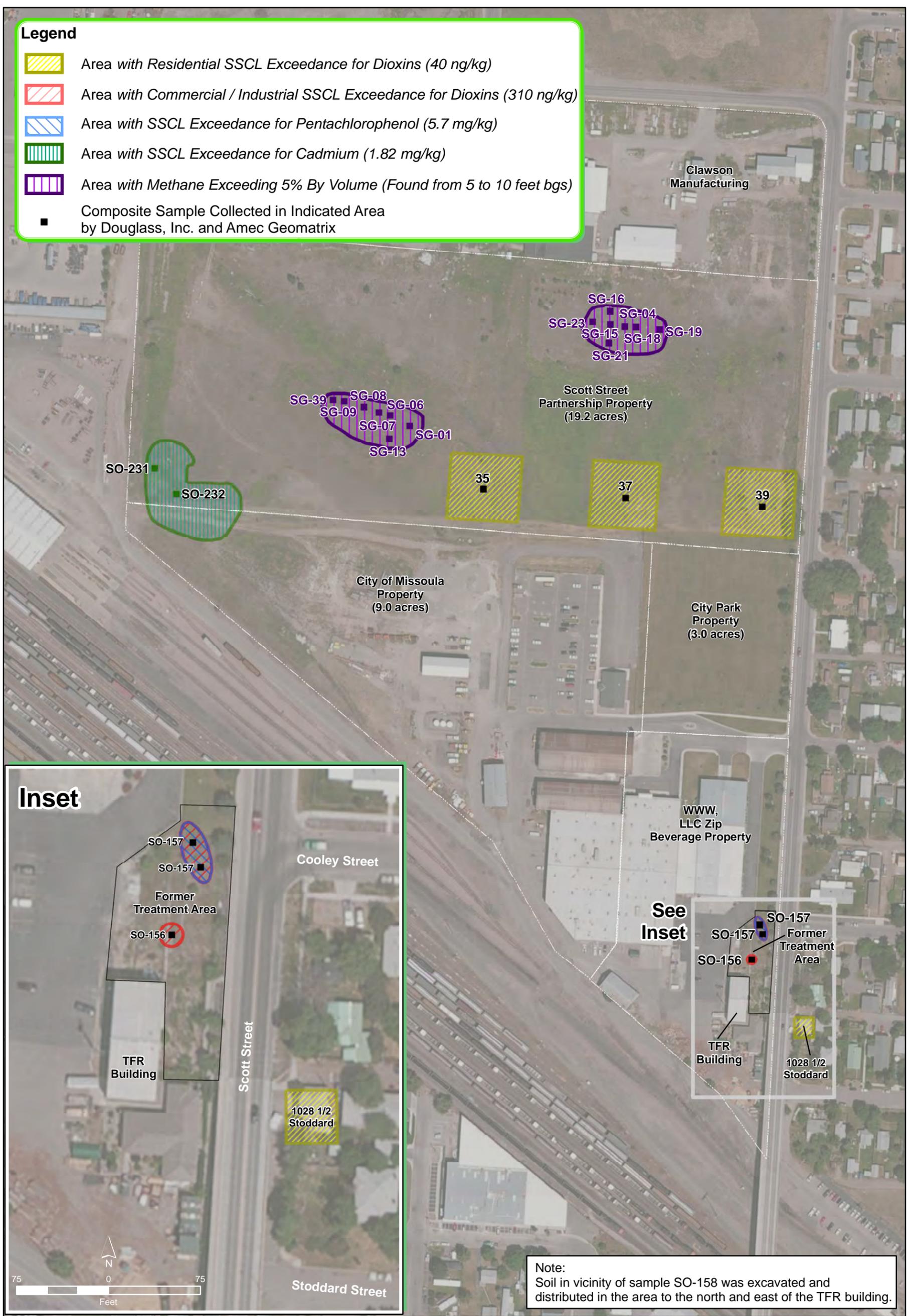
MISSOULA WHITE PINE SASH FACILITY  
 MISSOULA, MT

Figure 8  
 MAXIMUM POTENTIAL LATERAL EXTENT OF GROUNDWATER  
 EXCEEDING SSCLs - PERCHED ZONE

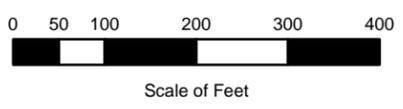
DATE: FEBRUARY 2015

**Legend**

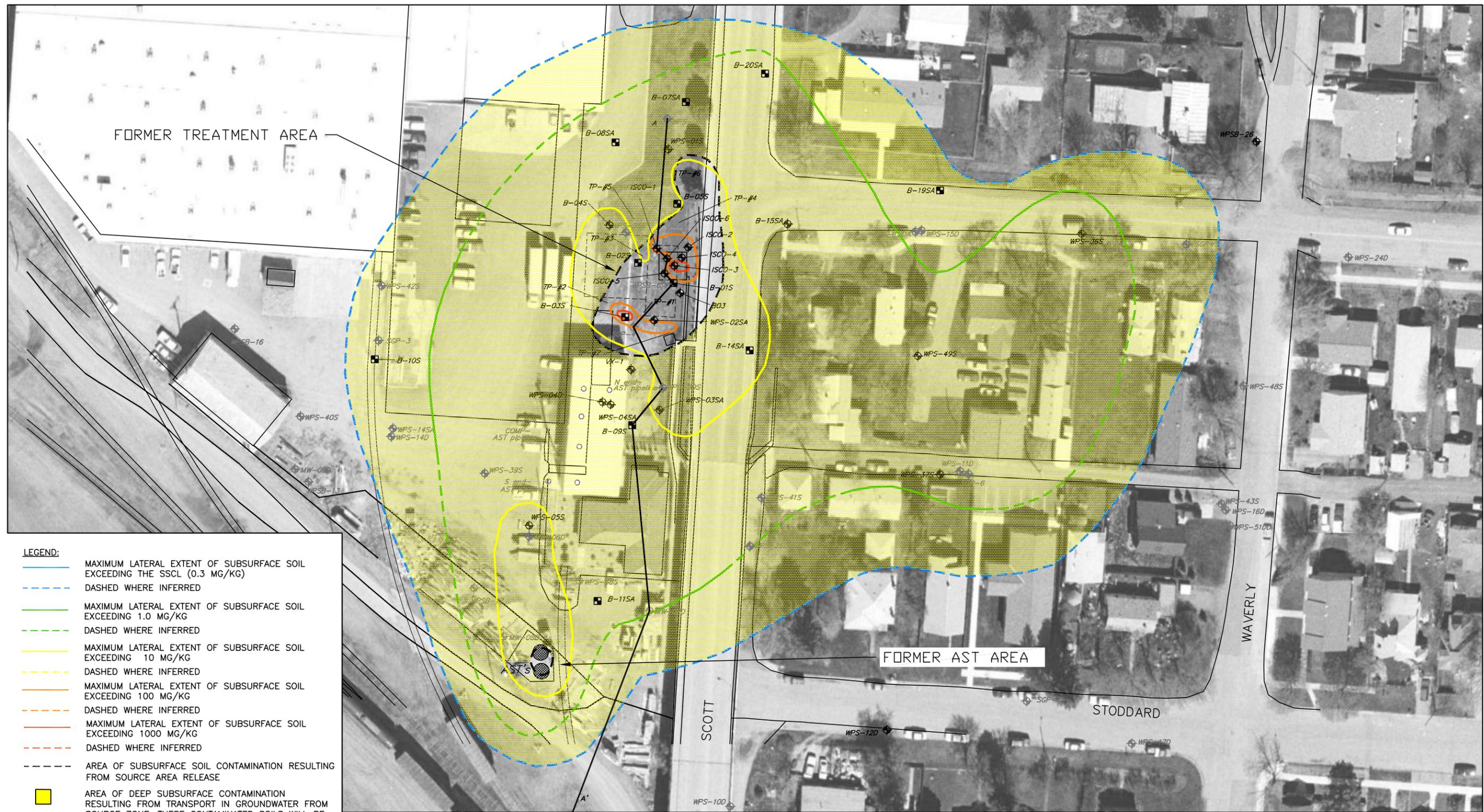
-  Area with Residential SSCL Exceedance for Dioxins (40 ng/kg)
-  Area with Commercial / Industrial SSCL Exceedance for Dioxins (310 ng/kg)
-  Area with SSCL Exceedance for Pentachlorophenol (5.7 mg/kg)
-  Area with SSCL Exceedance for Cadmium (1.82 mg/kg)
-  Area with Methane Exceeding 5% By Volume (Found from 5 to 10 feet bgs)
-  Composite Sample Collected in Indicated Area by Douglass, Inc. and Amec Geomatrix



**Note:**  
Soil in vicinity of sample SO-158 was excavated and distributed in the area to the north and east of the TFR building.

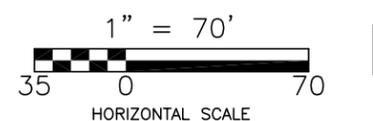


**Figure 9**  
**Surface Soil Exceeding SSCLs and Areas Exceeding 5% Methane**  
Missoula White Pine Sash Facility  
Missoula, Montana



- LEGEND:**
- MAXIMUM LATERAL EXTENT OF SUBSURFACE SOIL EXCEEDING THE SSCL (0.3 MG/KG)
  - - - DASHED WHERE INFERRED
  - MAXIMUM LATERAL EXTENT OF SUBSURFACE SOIL EXCEEDING 1.0 MG/KG
  - - - DASHED WHERE INFERRED
  - MAXIMUM LATERAL EXTENT OF SUBSURFACE SOIL EXCEEDING 10 MG/KG
  - - - DASHED WHERE INFERRED
  - MAXIMUM LATERAL EXTENT OF SUBSURFACE SOIL EXCEEDING 100 MG/KG
  - - - DASHED WHERE INFERRED
  - MAXIMUM LATERAL EXTENT OF SUBSURFACE SOIL EXCEEDING 1000 MG/KG
  - - - DASHED WHERE INFERRED
  - AREA OF SUBSURFACE SOIL CONTAMINATION RESULTING FROM SOURCE AREA RELEASE
  - AREA OF DEEP SUBSURFACE CONTAMINATION RESULTING FROM TRANSPORT IN GROUNDWATER FROM SOURCE ZONE. THESE CONTAMINATED SOILS WILL BE ADDRESSED BY THE GROUNDWATER ALTERNATIVES.
  - ⊕ SOIL GAS/ISCO/MONITORING WELL LOCATION USED IN CONTOURING
  - ⊕ SOIL GAS/ISCO/MONITORING WELL LOCATION NOT USED IN CONTOURING
  - CROSS SECTION LINE
  - ⊞ TEST PIT LOCATION

**NOTES:**  
 1. LATERAL EXTENT OF SUBSURFACE CONTAMINATION EXCEEDING THE SSCL WAS DETERMINED BY USING THE MAXIMUM CONCENTRATION DETECTED AT THE INDICATED LOCATION REGARDLESS OF DEPTH.  
 2. AT LOCATIONS WHERE THE CONTAMINANT WAS NOT DETECTED ABOVE A REPORTING LIMIT GREATER THAN THE SSCL, THE CONCENTRATION WAS ASSUMED TO BE EQUAL TO THE REPORTING LIMIT.



MISSOULA WHITE PINE SASH FACILITY  
 MISSOULA, MT

Figure 10a  
 MAXIMUM POTENTIAL LATERAL EXTENT OF SUBSURFACE SOIL  
 EXCEEDING PENTACHLOROPHENOL SSCL

DATE: FEBRUARY 2015



