



Facility Name: Town Pump Inc Columbus UST
Physical Address: 602 East 8th Ave North, Columbus
Facility ID: 48-08691
TREADS ID: 28607
Release Numbers: 740, 3663, 4028, 4324, 4737, 4821, 5160, and 5294
Priority: 5.0 Resolved & 4.0 Monitoring

Release 740 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 740 was confirmed on May 15, 1991, when a surface spill occurred from a punctured truck tank and approximately 60 gallons of diesel was released. Immediate cleanup was completed using sand. DEQ issued a No Further Corrective Action (NFCA) Letter on November 23, 1994. Release 1803 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

Release 3663 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 4196 was confirmed on February 3, 1999, from soil samples collected during piping and dispenser relocation activities at the Facility that exceeded DRO action levels (Fig 1). Investigation included the installation of a monitoring well downgradient of piping/dispenser pump area and all groundwater sample results were below practical quantitation limits. DEQ issued a No Further Corrective Action (NFCA) Letter on November 28, 2000. Release 3663 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

Release 4028 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 4028 was confirmed on May 23, 2001, when a line tightness test failed and perforated piping was found (Figs 2 & 3). Investigation and remediation consisted of excavating approximately 820 cubic yards of petroleum contaminated soil, collecting soil samples, free product recovery, operation of a SVE system, a Laser Induced Fluorescence (LIF) study, and groundwater monitoring and sampling (Tables 1 & 2). Release 4028 is on going with a cleanup work plan approved for excavation activities later in 2025.

Release 4324 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 4342 was confirmed on February 16, 2004, when a surface spill occurred from a possible faulty nozzle releasing approximately 50 gallons of diesel and was contained on the asphalt (Fig 4). Immediate cleanup was completed using sand. DEQ issued a No Further Corrective Action (NFCA) Letter on December 2, 2004. Release 3663 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

Release 4737 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 4737 was confirmed on May 17, 2009, when two diesel surface spills occurred from a vent pipe on top of a canopy due to a faulty check valve. The first release was approximately 30 gallons and the second was not recorded. Both were contained to the asphalt/concrete surface and immediate cleanup was completed using absorbent material. Release 4737 occurred within



Facility Name: Town Pump Inc Columbus UST
Physical Address: 602 East 8th Ave North, Columbus
Facility ID: 48-08691
TREADS ID: 28607
Release Numbers: 740, 3663, 4028, 4324, 4737, 4821, 5160, and 5294
Priority: 5.0 Resolved & 4.0 Monitoring

the area of Release 4028. DEQ issued a No Further Corrective Action (NFCA) Letter on July 21, 2011. Release 4737 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

Release 4821 History and Background

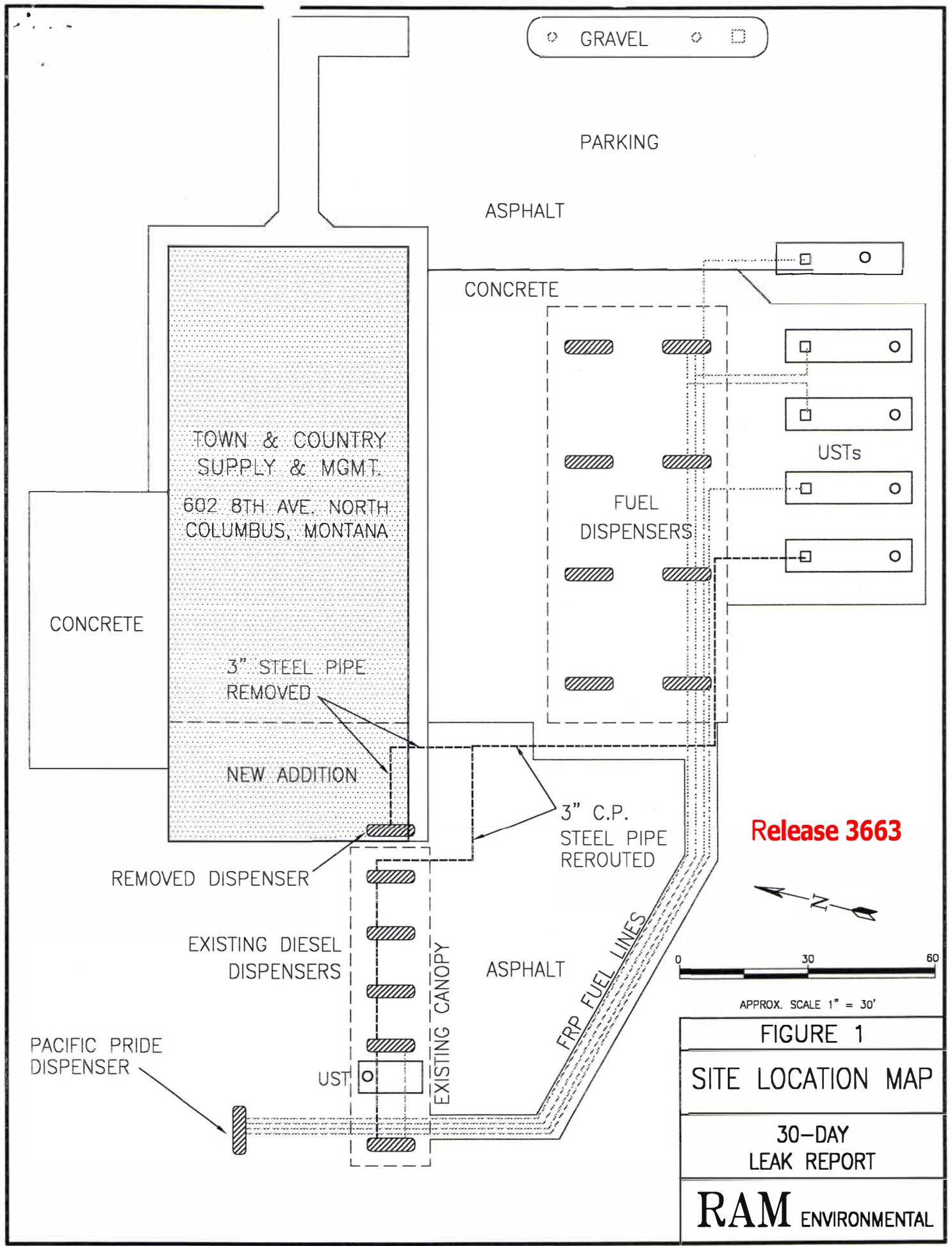
The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 4821 was confirmed on February 24, 2011, when a surface spill occurred after a fuel nozzle fell out of an unattended vehicle while fueling releasing approximately 30 – 40 gallons of diesel. Although the release did leave the property when it flowed into the street it was contained on the asphalt/concrete surface (Fig 5). Immediate cleanup was completed using floor dry and absorbent pads. DEQ issued a No Further Corrective Action (NFCA) Letter on August 4, 2011. Release 4821 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

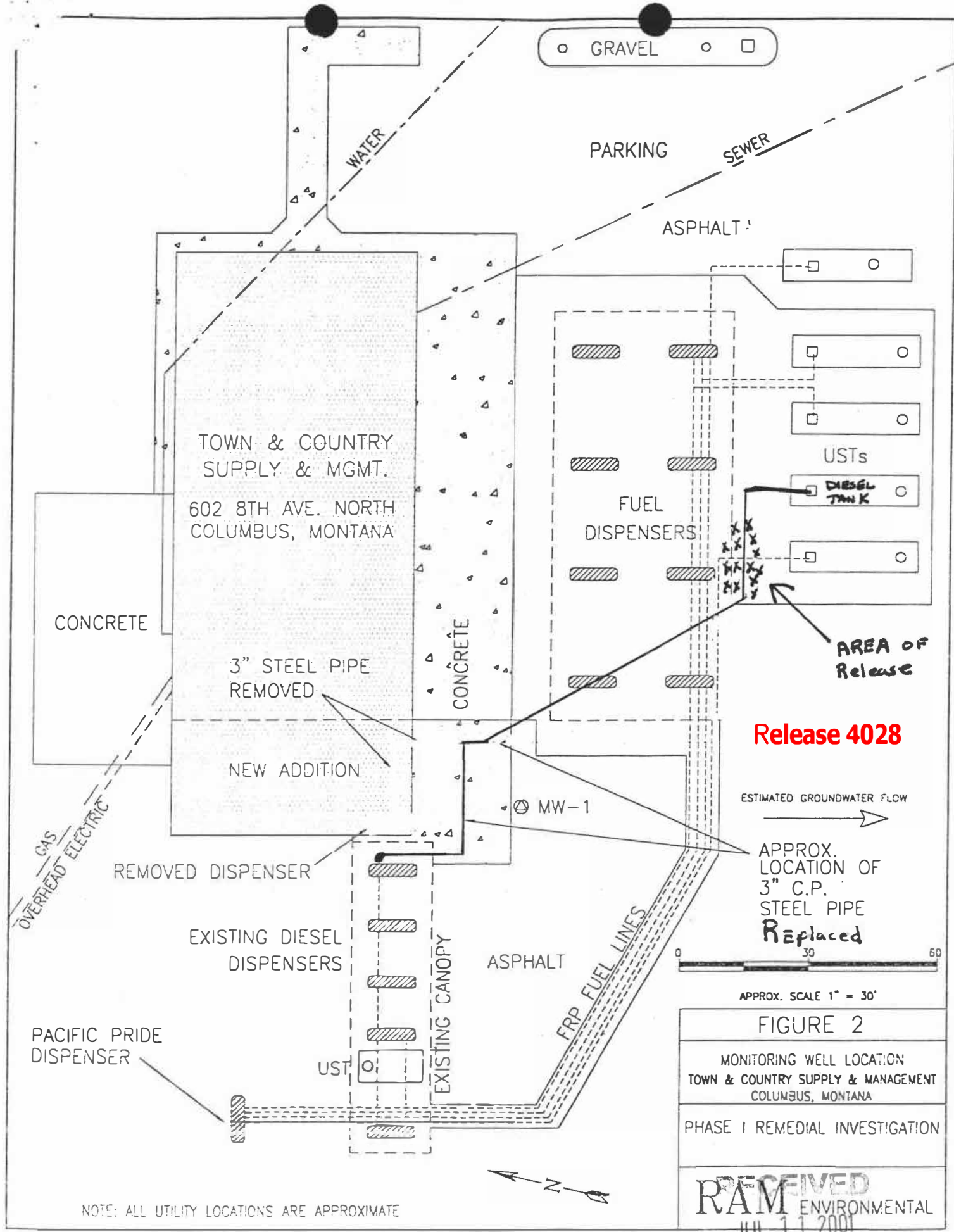
Release 5160 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. Release 5160 was confirmed on November 10, 2016, when a surface spill occurred at the west dispenser island after a semi-truck was left unattended while fueling and overfilled the truck tank releasing approximately 30 gallons of diesel to the asphalt/concrete surface. Immediate cleanup was completed using floor dry and absorbent pads. DEQ issued a No Further Corrective Action (NFCA) Letter on September 27, 2018. Release 4821 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).

Suspect Release 5294 History and Background

The Facility is located at 602 East 8th Avenue North, Columbus, Stillwater County, Montana. The Suspect Release 5294 was reported on October 23, 2018, when a surface spill occurred after a delivery truck hose disconnected during filling releasing approximately 20 gallons of diesel. Although the release did leave the property when it flowed into the street it was contained on the asphalt/concrete surface. Immediate cleanup was completed using floor dry. Since the amount released was less than the reportable quantity based on Administrative Rules of Montana 17.56.607 (4), DEQ issued a Resolved Suspect Petroleum Release letter on October 29, 2018. Suspect Release 5294 is considered resolved per Montana Administrative Rules of Montana 17.56.607 (4).





UTILITIES IN STREET

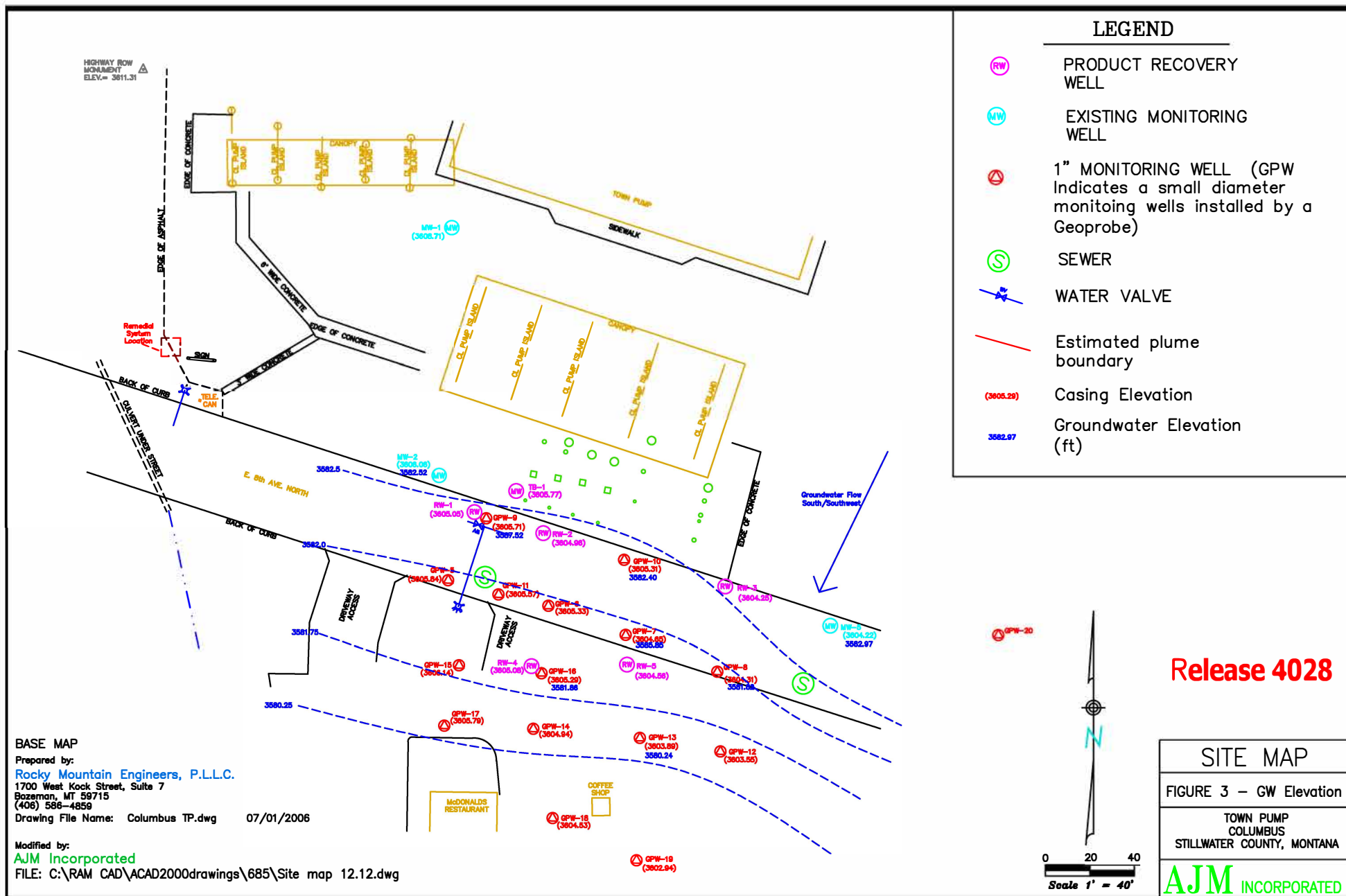


Table 1
Soil Sampling Analytical Data
Town Pump Travel Plaza
Columbus, MT

Release 4028

Soil Sample ID	Date	Sample Depth ft bgs	TEH mg/kg	Extractable Petro. Hydrocarbons			TPH mg/kg	Volatile Petro. Hydrocarbons								
				C9 - C18 Aliphatics mg/kg	C19-C36 Aliphatics mg/kg	C11-C22 Aromatics mg/kg		C5-C8 Aliphatics mg/kg	C9-C12 Aliphatics mg/kg	C9-C10 Aromatics mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg	Naph- thalene mg/kg
MW-2	4/20/06	19	ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	4/20/06	15	2,000	1,600	120	150	720	100	430	190	ND	ND	2.3	3.2	17	29
MW-3	4/20/06	26	20				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-4	4/21/06	25	ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
*MDEQ Tier 1 RBSLs:			5,000	1,000	5,000	100	500	100	500	8	0.1	0.05	10	10	200	9

TABLE LEGEND:

*The MDEQ Tier 1 Subsurface Soil risk based screening levels (RBSL's) for commercial sites <10 ft from groundwater.

ND = No detectable analyte concentration at the practical quantitation level (PQL).

Analytical results that exceed the MDEQ RBSLs are highlighted.

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Release 4028

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons										
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L	
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100	
MW-1																					
3608.71	6/16/06	3582.03	26.68			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1/25/08	3580.31	28.40			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	8/27/08	3586.16	22.55			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	3/21/09	3584.17	24.54			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	6/3/10	3583.76	24.95			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	3/30/11	3582.40	26.31			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	8/28/12	3584.67	24.04			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	9/19/13	3583.22	25.49			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/5/14	3584.43	24.28			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/7/24	3586.01	22.70			NS															
MW-2																					
3606.06	6/16/06	3581.18	24.88			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	1/25/08	3578.32	27.74	26.10	1.64	Not sampled because of the presence of free product															
	8/27/08	3585.21	20.85	20.84	0.01	Not sampled because of the presence of free product															
	3/21/09	3583.51	22.55			2,000		1,300	ND	400	2,300	300	960	1,000	ND	4	ND	120	18	ND	
	6/3/10	3582.86	23.20	23.10	0.10	Not sampled because of the presence of free product															
	3/30/11	3581.57	24.49	24.28	0.21	Not sampled because of the presence of free product															
	8/28/12	3583.78	22.28	22.27	0.01	1,600		800	ND	600	1,600	ND	1,000	570	ND	ND	ND	230	ND	60	
	12/4/12	3582.88	23.18			1,900		900	ND	800	980	30	130	820	ND	ND	ND	77	130	210	
	3/25/14	3580.90	25.16	25.03	0.13	Not sampled because of the presence of free product															
	5/16/14	3581.51	24.55	24.49	0.06	Not sampled because of the presence of free product															
	7/31/14	3581.42	24.64	24.60	0.04	Not sampled because of the presence of free product															
	8/8/16	#VALUE!	na	na	na	160,000	18,000	114,000	1,500	2,300	5,500	400 21	4,900	200 569	ND	ND	ND	58	ND	120	
	2/23/17	3582.56	23.50			3,850	468	<300	<300	257 J	1,140		288		50	<1	0.58	<0.50	<0.50	1.7	14
	5/19/17	3581.74	24.32			510,000		NS	NS	NS	710		ND	660	50	ND	ND	ND	ND	ND	14
	10/16/17	3586.65	19.41			700					230	ND	230	ND	ND	ND	ND	ND	ND	ND	
	8/17/22	3582.52	23.54			11200	1200	<600	<600	<600	2040	1250	385	402	<5.00	<5.00	<5.00	24.2	<10.0	9.86	
Duplicate	8/17/22					8070	<600	<600	<600	<600	2000	1210	387	400	<5.00	<5.00	<5.00	26	<10.0	8.72	
	11/6/24	3585.14	20.92			982					262	<100	<100	<100	<1.00	<1.00	<1.00	8.39	<3.00	<5.00	
The MDEQ Tier 1 QWB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without QWB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs). ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit. Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.																					

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date+B35	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons													
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L				
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100				
MW-3																								
	6/1/06		28.19	23.10	5.09	Gas chromatography analysis with flame ionization detector determined the sample to be diesel petroleum product																		
	1/4/07		29.00	20.75	8.25																			
	1/24/08					Not sampled because well was converted into a product recovery well																		
MW-4	6/16/06		23.72			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	9/1/07					Well was converted in to a product recovery well																		
	1/24/08					Not sampled because well was converted into a product recovery well																		
MW-5																								
3604.22	1/25/08	3579.78	24.44			8,100		4,100	900	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	312				
	8/27/08	3584.53	19.69			ND					60	ND	20	40	87	ND	ND	ND	4.6	44				
	3/20/09	3582.87	21.35			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	6/3/10	3582.55	21.67			ND					150	50	100	ND	170	ND	ND	ND	ND	ND				
	3/30/11	3581.27	22.95			ND					ND	ND	ND	ND	63	ND	ND	ND	ND	ND				
	8/28/12	3584.36	19.86			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	12/4/12	3582.42	21.80			700					2,900	750	2,100	40	ND	30	110	26	240	7				
	9/19/13	3582.22	22.00			13,000		4,600	600	2,000	1,760	ND	1,610	150	ND	ND	ND	ND	ND	96				
	11/5/14	3583.22	21.00			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	8/8/16	3581.38	22.84			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	2/23/17	3582.24	21.98			<300					88	77	25	<20	89	<0.50	<0.50	<0.50	<0.50	<1.0				
	10/16/17	3586.04	18.18			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	8/17/22	3582.97	21.25			<300	<300				<200	<100	<100	<100	84.7	<5.00	<5.00	<5.00	<10.0	<5.00				
	11/6/24	3585.53	18.69			<300	<300				<200	<100	<100	<100	282	<1.00	<1.00	<1.00	<3.00	<5.00				
The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs). ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit. Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.																								

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-5																				
3605.84	1/9/07	3583.12	22.72			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/24/08	3579.53	26.31			ND					280	ND	ND	280	ND	3.9	ND	ND	ND	ND
	8/28/08	3584.61	21.23			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/20/09	3583.16	22.68			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/2/10	3605.84				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3581.46	24.38			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3583.91	21.93			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3582.74	23.10								990	200	ND	790	ND	ND	ND	ND	ND	5
	9/19/13	3582.40	23.44			ND					120	ND	120	ND	ND	ND	ND	ND	ND	18
	11/5/14	3583.46	22.38			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/8/16	3581.54	24.30			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GPW-6																				
3605.33	1/9/07					NS														
	1/24/08					NS														
	6/2/10	3582.61	22.72			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3583.89	21.44			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/13	3583.29	22.04			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	9
	11/5/14					ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs). ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit. Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.																				

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Naph- thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-7																				
3604.65	1/9/07	3572.75	31.90	19.34	12.56	Not sampled because of the presence of free product														
	1/24/08	3604.65																		
	8/27/08	3576.85	27.80	17.68	10.12	Not sampled because of the presence of free product														
	3/21/09	3576.45	28.20	19.06	9.14	Not sampled because of the presence of free product														
		3577.60	27.05	22.72	4.33	Not sampled because of the presence of free product														
	8/28/12	3577.89	26.76	17.70	9.06	Not sampled because of the presence of free product														
	9/19/13	3585.30	19.35	16.70	2.65	Not sampled because of the presence of free product														
	11/26/13	3587.95	16.70	16.35	0.35	Not sampled because of the presence of free product														
	3/25/14	3587.10	17.55	17.15	0.40	Not sampled because of the presence of free product														
	5/16/14	3586.77	17.88	17.35	0.53	Not sampled because of the presence of free product														
	7/31/14	3586.40	18.25	17.55	0.70	Not sampled because of the presence of free product														
	7/6/17	3586.39	18.26			21,000		12,000	200	3,300	1,100	410	660	60	ND	ND	ND	ND	ND	93
	8/17/22	3585.85	18.80			6,640	3600	<1800	<1800	<1800	667	<100	275	337	34.3	<5.00	<5.00	<5.00	<10.0	<5.00
	11/7/24	3587.62	17.03			12,300	12200	5,900	1880	4,400	923	<100	475	375	1.85	<1.00	<1.00	6.22	<3.00	<5.0
	11/7/24	Duplicate				6,880	6240	<2790	1230	2,220	797	<100	411	344	<1.00	<1.00	<1.00	6.54	<3.00	<5.00
GPW-8																				
3604.31	1/9/07	3582.73	21.58			ND					20	20	ND	ND	ND	ND	ND	ND	ND	38
	1/25/08	3580.01	24.30			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/27/08	3584.55	19.76			ND					ND	ND	ND	ND	47	ND	ND	ND	ND	ND
	3/21/09	3582.78	21.53			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/2/10	3582.27	22.04			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3581.13	23.18			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3583.49	20.82			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3582.18	22.13								ND	ND	ND	ND	ND	ND	ND	ND	ND	17
	9/19/13	3581.89	22.42			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/5/14	3583.03	21.28			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/9/16	3581.02	23.29			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/22	3581.82	22.49			<300	<600	<600	<600	<600	<200	<100	<100	<100	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00
	11/7/24	3584.29	20.02			<300					<200	<100	<100	<100	1.31	<1.00	<1.00	<1.00	<3.00	<5.00

The MDEQ Tier 1 QWB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without QWB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs).
ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit.
Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-9																				
3605.71	1/9/07	3575.83	29.88	19.70	10.18	NS														
	1/24/08	3575.77	29.94	25.18	4.76	NS														
	8/27/08	3584.18	21.53	15.15	6.38															
	3/21/09	3587.31	18.40	15.93	2.47															
	8/28/12	3583.08	22.63	19.32	3.31															
	9/19/13	3582.65	23.06	20.46	2.60	Not sampled because of the presence of free product														
	3/25/14	3581.70	24.01	23.91	0.10	Not sampled because of the presence of free product														
	5/16/14	3585.55	20.16	20.09	0.07	Not sampled because of the presence of free product														
	7/31/14	3582.48	23.23	23.14	0.09	Not sampled because of the presence of free product														
	7/5/17	3585.47	20.24			3,400		500	200	1,800	1,100	ND	1,100	20	ND	ND	ND	ND	ND	21
	8/17/22	3587.52	18.19			11,700	7370	3840	1310	2,220	430	105	165	160	6.49	<5.00	<5.00	<5.00	<10.0	8
	11/7/24	3587.71	18.00			NS														
GPW-10																				
3605.31	1/9/07	3583.13	22.18			500		500	ND	ND	390	20	180	190	ND	10	13	14	70	170
	1/24/08	3577.35	27.96	25.54	2.42	Not sampled because of the presence of free product														
	8/27/08	3582.91	22.40	19.50	2.90															
	3/21/09	3581.22	24.09	21.78	2.31															
	6/3/10	3577.56	27.75	22.20	5.55															
	3/30/11	3579.61	25.70	23.35	2.35															
	8/28/12	3582.35	22.96	20.73	2.23															
	9/19/13	3581.08	24.23	22.03	2.20	Not sampled because of the presence of free product														
	3/25/14	3580.95	24.36	24.27	0.09	Not sampled because of the presence of free product														
	5/16/14	3581.51	23.80	23.73	0.07	Not sampled because of the presence of free product														
	7/31/14	3581.36	23.95	23.89	0.06	Not sampled because of the presence of free product														
	7/5/17	3582.10	23.21			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/22	3582.40	22.91			413					<200	<100	112	<100	8.05	<5.00	<5.00	<5.00	<10.0	<5.00
	11/7/24	3584.97	20.34			383					281	<100	121	<100	19.1	16.9	<1.00	3.02	3.8	<5.00
GPW-11																				
3605.57	1/9/07	3586.25	19.32	18.58	0.74	NS														
	1/24/08	3605.57				NS														
	8/27/08	3577.29	28.28	18.00	10.28	Not sampled because of the presence of free product														
	3/21/09	3576.99	28.58	17.75	10.83															
	6/3/10	3583.57	22.00	17.05	4.95															
	8/28/12	#VALUE!	obstruction in well, product in bailer																	
	9/19/13	#VALUE!	obstruction in well, product in bailer																	

The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs).
ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit.
Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-12																				
3603.55	2/27/07	3581.29	22.26			ND					150	20	ND	130	ND	6.3	1.2	0.9	22	40
	1/24/08	3578.89	24.66			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/27/08	3603.55				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/3/10	#VALUE!	-			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3603.55				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3582.49	21.06			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3581.79	21.76								ND	ND	ND	ND	ND	ND	ND	ND	ND	16
	9/19/13	3581.46	22.09			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/5/14	3582.72	20.83			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GPW-13																				
3603.89	2/27/07	3581.35	22.54			NS														
	1/24/08	3578.98	24.91			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/27/08	3584.20	19.69			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/20/09	3582.57	21.32			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/3/10	3582.16	21.73			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3603.89				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3582.59	21.30			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3581.93	21.96								ND	ND	ND	ND	ND	ND	ND	ND	ND	9
	9/19/13	3581.53	22.36			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/5/14	3582.88	21.01			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/9/16	3580.74	23.15			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/20/17		-			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/22	3580.24	23.65			<300					<200	<100	<100	<100	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00

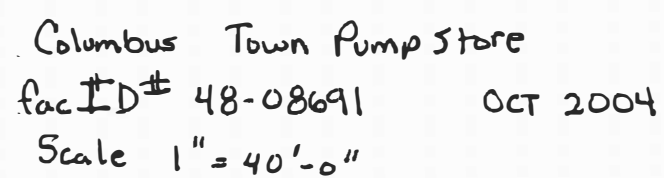
The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs).
ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit.
Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

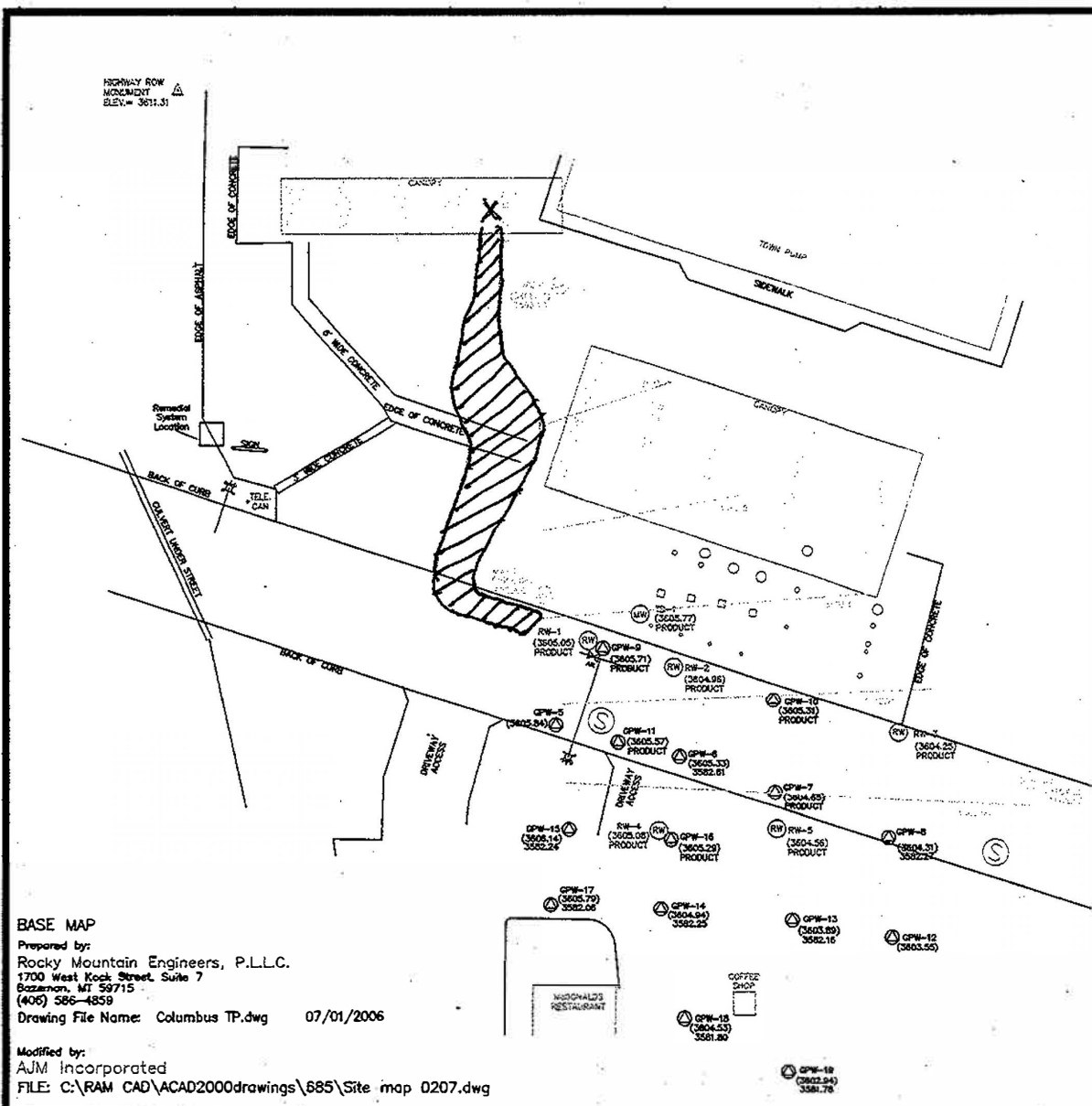
Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-14																				
3604.94	2/27/07	3581.34	23.60			NS														
	1/24/08	3604.94				NS														
	6/3/10	3582.25	22.69			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3580.86	24.08			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3583.14	21.80			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3581.84	23.10			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	6
	9/19/13	3581.42	23.52			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/5/14	3582.73	22.21			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/9/16	3580.63	24.31			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/20/17		-			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/7/24	3583.84	21.1			NS														
GPW-15																				
3606.14	2/27/07	3581.53	24.61			NS														
	1/24/08	3606.14				NS														
	6/3/10	3582.24	23.90			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/30/11	3581.04	25.10			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/4/12	3582.12	24.02								ND	ND	ND	ND	ND	ND	ND	ND	ND	7
	9/19/13	3581.79	24.35			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/5/14	3582.86	23.28			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/9/16	3580.91	25.23			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/7/24	3584.27	21.87																	
GPW-16																				
3605.29	2/27/07	3580.39	24.90	23.73	1.17	NS														
	1/24/08	3574.54	30.75	25.70	5.05	NS														
	8/27/08	3577.19	28.10	19.89	8.21	Not sampled because of the presence of free product														
	3/21/09	3575.27	30.02	21.55	8.47	Not sampled because of the presence of free product														
	6/3/10	3577.54	27.75	22.16	5.59	Not sampled because of the presence of free product														
	8/28/12	3580.11	25.18	24.02	1.16	Not sampled because of the presence of free product														
	8/6/13	3579.54	25.75	21.37	4.38	Not sampled because of the presence of free product														
	11/26/13	3580.98	24.31	23.53	0.78	Not sampled because of the presence of free product														
	3/25/14	3579.52	25.77	24.88	0.89	Not sampled because of the presence of free product														
	5/16/14	3580.05	25.24	24.37	0.87	Not sampled because of the presence of free product														
	7/31/14	3579.77	25.52	24.61	0.91	Not sampled because of the presence of free product														
	7/6/17	3580.87	24.42			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	34
	8/17/22	3581.68	23.61			1050	<600	<600	<600	<600	229	<100	107	122	<5.00	<5.00	<5.00	<5.00	<10.0	5
	11/7/24	3584.25	21.04			479					<200	<100	<100	<100	<1.00	<1.00	<1.00	<1.00	<3.00	<5.00
The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs). ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit. Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.																				

Table 2 - Groundwater Summary
Town Pump Columbus
602 8th Ave. North, Columbus, Stillwater County, Montana.
DEQ Facility ID 48-08691, Release #4028, Work Plan 34504

Well ID	Date	GW Elevation (ft)	DTW ft bgs	DTP ft bgs	Product Thickness ft	Extractable Petroleum Hydrocarbons					Volatile Petroleum Hydrocarbons									
						EPH Screen (TEH) µg/L	TEH µg/L	C9 - C18 Aliphatics µg/L	C19-C36 Aliphatics µg/L	C11-C22 Aromatics µg/L	TPH µg/L	C5-C8 Aliphatics µg/L	C9-C12 Aliphatics µg/L	C9-C10 Aromatics µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Naph-thalene µg/L
MDEQ Tier 1 HHSs & RBSLs (2024):						NE	NE	3,000	100,000	1,100	NE	700	3,000	980	30	5	1,000	700	10,000	100
GPW-17	2/27/07	3581.30	24.49			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3605.79	1/25/08	3578.99	26.80			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/08	3584.03	21.76			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/20/09	3582.56	23.23			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/3/10	3582.06	23.73			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3582.85	22.94			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/13	3581.54	24.25			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	11
	11/5/14	3582.61	23.18			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/7/24	3584.02	21.77																	
GPW-18	2/27/07	3582.59	21.94			NS														
3604.53	1/24/08					NS														
	6/3/10	3581.80	22.73			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3582.51	22.02			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/13	3581.13	23.40			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	19
	11/5/14	3582.44	22.09			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GPW-19	2/27/07	3581.02	21.92			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3602.94	1/24/08	3578.68	24.26			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/27/08	3583.95	18.99			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/21/09	3582.23	20.71			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/3/10	3581.78	21.16			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/12	3582.46	20.48			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/19/13	3581.17	21.77			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	16
	11/5/14	3582.32	20.62			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GPW-20	11/5/14	No Elevation	21.22			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NA	8/8/16	No Elevation	23.10			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/23/17	No Elevation	22.25			<300					<20	<20	<20	<20	0.90 J	<0.50	<0.50	<0.50	<0.50	<1.0
	5/19/17	No Elevation	-			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/16/17	No Elevation	18.53			ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/22	No Elevation	23.35			<300					<200	<100	<100	<100	<5.00	<5.00	<5.00	<5.00	<10.0	<5.00
	11/6/24	No Elevation	19.92			<300					<200	<100	<100	<100	<1.00	<1.00	<1.00	<1.00	<3.00	<5.00
TB-1	9/21/07		23.78	21.65	2.13															
	9/25/07		24.20	21.30	2.90															
	12/13/07		27.25	22.06	5.19															
	1/25/08		27.33	23.53	3.80	NS														
	2/21/08		27.30	25.83	1.47															
	8/27/08					Well was converted in to a product recovery well														
The MDEQ Tier 1 WQB-7 Human Health Standards (HHSs) coincide with Maximum Contaminant Levels (MCLs) and Health Advisory (HA) levels set by the EPA. For compounds without WQB-7 HHSs the MDEQ developed Risk Based Screening Levels (RBSLs). ND = No detectable analyte concentration at the practical quantitation level (PQL). NS= Not Sampled. NE= Not established. J=Estimated value, analyte present but less than reporting limit. Analytical results that exceed the MDEQ Tier 1 HHSs and RBSLs are highlighted.																				



11/1/12



LEGEND

- PRODUCT RECOVERY WELL
- EXISTING MONITORING WELL
- 1" MONITORING WELL (GPW Indicates a small diameter monitoring wells installed by a Geoprobe)
- GROUND WATER EQUIPOTENTIAL LINE
- GROUNDWATER ELEVATION (FT)
- SEWER
- WATER VALVE

Ground Water Flow
Direction N10E
Gradient 0.006
June 3/4, 2010

Edit Not To Scale
Edited By
Trent Biggers
3-9-2011
X = Pump 01
⊗ = SPILL AREA

Release 4821



JUNE 2010 GW SAMPLING EVENT POTENTIOMETRIC MAP
FIGURE 5
TOWN PUMP COLUMBUS STILLWATER COUNTY, MONTANA
AJM INCORPORATED