

Copper Flat Monitoring Wells Anticipated for Plugging and Abandonment
Based on MW Plan
Revised 19 Nov 2018

Costs per JSAI

mob to site \$3,000 per campaign
Labor \$4,500 ea, factor >6" d using 6/10ths rule
Grout Pump \$1,000 ea, factor >6" d using 6/10ths rule
Grout Supply \$40 per cu ft total casing volume + 10%
Excess Grout Factor +10%

plan year						
1	4	7	13	19	30	114
closure year (1 = 1st year after EOM)						

Wells to Plug/Abandon	Year Closed	casing dia (in)	total depth (ft bgl)	Reason to Close	cu ft	Grout	Labor	Equip	w/o Mob Tot	-13	-10	-7	-1	5	16	100
GWQ-10	1	3	125	TSF expansion	7	\$280	\$4,500	\$1,000	\$5,780	x						
NP-1	1	2	110	TSF expansion	3	\$120	\$4,500	\$1,000	\$5,620	x						
NP-2	1	2	110	TSF expansion	3	\$120	\$4,500	\$1,000	\$5,620	x						
NP-3	1	2	90	TSF expansion	3	\$120	\$4,500	\$1,000	\$5,620	x						
NP-4	1	2	100	TSF expansion	3	\$120	\$4,500	\$1,000	\$5,620	x						
NP-5	1	2	90	TSF expansion	3	\$120	\$4,500	\$1,000	\$5,620	x						
GWQ94-13	1	5	106	TSF expansion	16	\$640	\$4,500	\$1,000	\$6,140	x						
GWQ94-14	3	5	159	TSF expansion	24	\$960	\$4,500	\$1,000	\$6,460	x						
GWQ94-15	3	4	142	TSF expansion	14	\$560	\$4,500	\$1,000	\$6,060	x						
GWQ94-16	1	5	46	TSF expansion	7	\$280	\$4,500	\$1,000	\$5,780	x						
GWQ94-17	1	4	150	TSF expansion	15	\$600	\$4,500	\$1,000	\$6,100	x						
GWQ94-18	1	4	51	TSF expansion	5	\$200	\$4,500	\$1,000	\$5,700	x						
GWQ94-19	1	4	53	TSF expansion	6	\$240	\$4,500	\$1,000	\$5,740	x						
GWQ94-20	1	4	338	TSF expansion	33	\$1,320	\$4,500	\$1,000	\$6,820	x						
GWQ94-21A	3	2	263	TSF expansion	7	\$280	\$4,500	\$1,000	\$5,780	x						
GWQ94-21B	3	2	315	TSF expansion	8	\$320	\$4,500	\$1,000	\$5,820	x						
GWQ96-22A	1	2	244	redundant	6	\$240	\$4,500	\$1,000	\$5,740	x						
GWQ96-22B	17	2	380	anticipate not needed	10	\$400	\$4,500	\$1,000	\$5,900					x		
GWQ11-26	12	4	43	eventually dry	5	\$200	\$4,500	\$1,000	\$5,700				x			
GWQ11-24A	6	2	90	eventually dry	3	\$120	\$4,500	\$1,000	\$5,620			x				
GWQ11-24B	7	2	250	eventually dry	6	\$240	\$4,500	\$1,000	\$5,740			x				
GWQ-1	4	14	391	redundant	460	\$18,400	\$7,482	\$1,663	\$27,544		x					
GWQ-8	10	8	148	redundant	57	\$2,280	\$5,348	\$1,188	\$8,816				x			
PGWQ-16	19	4	180	anticipate not needed	18	\$720	\$4,500	\$1,000	\$6,220					x		
PGWQ-19	19	4	75	anticipate not needed	8	\$320	\$4,500	\$1,000	\$5,820					x		
GWQ-5R	13	4	120	eventually dry	12	\$480	\$4,500	\$1,000	\$5,980				x			
PGWQ-9	30	4	100	anticipate not needed	10	\$400	\$4,500	\$1,000	\$5,900						x	
PGWQ-3	30	4	150	anticipate not needed	15	\$600	\$4,500	\$1,000	\$6,100						x	
PGWQ-20	19	4	30	anticipate not needed	3	\$120	\$4,500	\$1,000	\$5,620					x		
PGWQ-6	19	4	55	anticipate not needed	6	\$240	\$4,500	\$1,000	\$5,740					x		
GWQ-11	1	3	70	TSF expansion	4	\$160	\$4,500	\$1,000	\$5,660	x						
IW-1	1	4	49	TSF expansion	5	\$200	\$4,500	\$1,000	\$5,700	x						
IW-2	1	4	46	TSF expansion	5	\$200	\$4,500	\$1,000	\$5,700	x						
IW-3	1	4	45	TSF expansion	5	\$200	\$4,500	\$1,000	\$5,700	x						
MW-9	40	4	252.5	End of 100 year monitoring	25	\$1,000	\$4,500	\$1,000	\$6,500							x
MW-10	40	4	128	End of 100 year monitoring	13	\$520	\$4,500	\$1,000	\$6,020							x
MW-11	40	4	65	End of 100 year monitoring	7	\$280	\$4,500	\$1,000	\$5,780							x
BOR_MW-1	40	2	33	End of 100 year monitoring	1	\$40	\$4,500	\$1,000	\$5,540							x
BOR_MW-2	40	2	29	End of 100 year monitoring	1	\$40	\$4,500	\$1,000	\$5,540							x
BOR_MW-3	40	2	25	End of 100 year monitoring	1	\$40	\$4,500	\$1,000	\$5,540							x
BOR_MW-4	40	2	29	End of 100 year monitoring	1	\$40	\$4,500	\$1,000	\$5,540							x
						\$33,760	\$188,329	\$41,851	\$263,940							

monitor wells closed	21	1	2	3	5	2	7	sum
closure	\$122,780	\$27,544	\$11,360	\$20,496	\$29,300	\$12,000	\$40,460	\$263,940
mob	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$21,000
Total w/ mob	\$125,780	\$30,544	\$14,360	\$23,496	\$32,300	\$15,000	\$43,460	\$284,940

Filiz Toprak

From: Jeffrey Smith <jsmith@themasourcesgroup.com>
Sent: Monday, December 10, 2018 4:56 PM
To: Filiz Toprak
Subject: copper flat maintenance

Follow Up Flag: Follow up
Flag Status: Completed

Filiz,

Ongoing maintenance as discussed. I recalled needing something for erosion repair, disregard if activity already accounted for. Send over SRCE when available, then start thinking about any files needed to complete attachments. Goal remains to send SRCE, report, and attachments to agency as soon as possible tomorrow morning, fingers crossed nothing major discovered. Call with questions or discussion. Thanks.

	Closure year			
	15	50	80	sum
Monitor Well Repairs	\$8,000	\$8,000	\$8,000	\$24,000
Basis = JSAI estimate				
Includes mob/demob, workover rig, labor, materials				

	Closure year			
	6	9	11	sum
Earthworks Erosion Repairs	\$40,000	\$40,000	\$40,000	\$120,000
Basis = NMCC estimate				
Includes mob/demob, labor, equipment, materials				

Best Regards,
Jeff