

Red Dog Operations

Alaska, USA

ONE YEAR MINE PLAN – 2012 ADDENDUM

January 2012

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Distribution List – January 2012

Red Dog Mine, Teck Alaska Inc.

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Sr. Vice President – Rob Scott	Short Range Planning (2)
General Manager – Mike Bonneau	Long Range Planning (1)
Operations Manager- John Egan	Projects (1)
Mine Superintendant - Mark Smith	Geology (1)
Mine General Forman – Larry Hanna	Spares (4)

1. SUMMARY

1.1. Introduction

The 2012 mine plan was completed in June 2011. The following initial assumptions of the 2012 mine plan have changed dramatically during this several month period of mine development:

- 1) End of 2011 mine status projection has changed mainly due to geotechnical and production scheduling issues.
- 2) Final date of Main-pit completion reset to Feb. 29, 2012 from Dec. 31 2012.
- 3) Equipment availability, such as 12 haul trucks will be available through February of 2012.

This 2012 Mine Plan Addendum is a collection of revised monthly 2012 mine production plans, equipment forecast, Aqqaluk dewatering plan, Main Pit Dump (MPD) dumping plan and other major changes.

1.2. Mine Production

The production target forecast has been reset to 13,280 kt of total mine production from the Main Pit and the Aqqaluk Pit (Table 1-1). The 3,773 kt of ore at % Zn and % Pb is from the Main Pit and Aqqaluk Pit throughout 2012. Within the total 9,507 kt of waste scheduled, 9,319 kt is from the Aqqaluk Pit.

	Main Pit	Aqqaluk Pit	Total
Total (t)	404,318	12,875,501	13,279,819
Ore (t)	216,564	3,556,178	3,772,742
Zn (%)			
Pb (%)			
Waste (t)	187,754	9,319,323	9,507,077
SR	0.87	2.6	2.52

Table 1-1 2012 Mine Plan Summary

1.3. Equipment Fleets

The adjusted 2012 equipment schedule is shown in Table 1-2. For the first 2 months of 2012, the equipment required to achieve the 2012 plan will remain unchanged from current fleet size.

At the start of Mar. 2012, three trucks will be decommissioned as short waste cycle time of back filling waste into the Main Pit (MPD), and two more trucks will be decommissioned at the beginning of 4th quarter of 2012, as the Aqqaluk Pit stripping demand is reduced. Red Dog purchased one 993K Loader and one DML Drill in 2011, both as replacements. One drill and two loaders are scheduled for replacement in 2012.

Equipment Description Jan & Feb Mar. to Sep. Q4 Drills DML 3 3 3 Trucks 777 12 9 7 Loaders 992/993 5 5 5 4 Dozers D9/D10 4 4

Table 1-2 2012 Equipment Schedule

1.4. Risks and Opportunities

The challenge Red Dog will face in the beginning of 2012 is the completion of the Main Pit and back filling the Main Pit with waste. The delay of the Main Pit completion will create a risk of delaying equipment decommissioning as scheduled at the beginning of 1st quarter.

The challenges of modeled ore tonnage and grade deviation will continue throughout 2012; however, Red Dog's efforts to fine tune and optimize mine planning can help mitigate the pressures of the mine schedule change.

Opportunity exists to recover 62.6 kt of ore in the GHZ01 area during February and March before spring thaw or back filling this area.

2. MONTHLY MINE PRODUCTION

Table 2-1 2012 Monthly Mine Plan Summary

<u>Main</u>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	2012 Total
Ore (t)	107,117	91,621	17,826	0	0	0	0	0	0	0	0	0	216,564
NSR (\$/t)		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Zn (%)		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pb (%)		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
sPb (%)	1.1	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Ag (g/t)		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Fe (%)	7.7	7.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
Ba (%)	2.7	5.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
TOC (%)	0.4	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
SiO2 (%)	41.9	41.2	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6
Marginal (t)	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste (t)	129,771	37,786	20,197	0	0	0	0	0	0	0	0	0	187,754
Total(t)	236,888	129,407	38,023	0	0	0	0	0	0	0	0	0	404,318
SR	1.21	0.41	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87

<u>Aqqaluk</u>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	2012 Total
Ore (t)	213,355	201,646	301,925	288,393	330,423	318,019	316,290	336,689	311,395	332,994	284,342	320,707	3,556,178
NSR (\$/t)													
Zn (%)													
Pb (%)													
sPb (%)	0.8	0.9	0.8	0.8	1.1	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.8
Ag (g/t)													
Fe (%)	3.7	3.8	3.7	3.4	3.9	4.2	3.1	3.4	3.1	3.7	3.2	3.1	3.5
Ba (%)	1.7	5.9	9.3	8.3	8.5	7.2	14.6	8.9	4.9	9.1	5.2	7.6	7.9
TOC (%)	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
SiO2 (%)	56.1	48.1	43.3	44.7	42.0	43.5	34.7	44.6	51.2	42.1	51.9	48.0	45.4
Marginal (t)	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste (t)	715,292	723,182	880,639	904,407	830,204	809,089	853,240	821,197	826,034	645,653	664,363	646,023	9,319,323
Total(t)	928,647	924,828	1,182,564	1,192,800	1,160,627	1,127,108	1,169,530	1,157,886	1,137,429	978,647	948,705	966,730	12,875,501
SR	3.35	3.59	2.92	3.14	2.51	2.54	2.70	2.44	2.65	1.94	2.34	2.01	2.6

<u>Total</u>	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	2012 Total
Ore (t)	320,472	293,267	319,751	288,393	330,423	318,019	316,290	336,689	311,395	332,994	284,342	320,707	3,772,742
NSR (\$/t)													
Zn (%)													
Pb (%)													
sPb (%)	0.9	0.9	0.8	0.8	1.1	1.0	0.7	0.8	0.8	0.8	0.7	0.6	0.8
Ag (g/t)													
Fe (%)	5.0	4.9	3.8			4.2	3.1	3.4		3.7	3.2	3.1	3.7
Ba (%)	2.0	5.7	8.9			7.2	14.6	8.9		9.1	5.2	7.6	7.6
TOC (%)	0.2	0.3	0.3		0.2	0.2	0.2	0.2		0.2	0.2	0.3	0.2
SiO2 (%)	51.4	45.9	43.2	44.7	42.0	43.5	34.7	44.6	51.2	42.1	51.9	48.0	45.2
Marginal (t)	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Waste (t)	845,063	760,968	900,836							645,653		646,023	
Total(t)	1,165,535	1,054,235		1,192,800						978,647			13,279,819
SR	2.6	2.6	2.8	3.1	2.5	2.5	2.7	2.4	2.7	1.9	2.3	2.0	2.52
Ag in Zn conc (g/dmt)													
Ag in Pb conc (g/dmt)													
Zn/Fe													
Zn/Pb tot	3.7	4.1	4.3	4.0	3.6	3.4	3.8	4.2	4.2	3.8	4.4	4.3	4.0
sPb/Pb													
Zn/TOC													
Zn conc (t)													
Pb conc (t)													
Total Conc (t)													

Table 2-2 2012 Quarterly Mine Plan Summary

<u>Main</u>	Q1	Q2	Q3	Q4	2012 Total
Ore (t)	216,564	0	0	0	216,564
NSR (\$/t)	0.0		0.0	0.0	
Zn (%)	0.0		0.0	0.0	
Pb (%)	0.0		0.0	0.0	
sPb (%)	1.0	0.0	0.0	0.0	1.0
Ag (g/t)	0.0		0.0	0.0	
Fe (%)	7.4	0.0	0.0	0.0	7.4
Ba (%)	3.7	0.0	0.0	0.0	3.7
TOC (%)	0.4	0.0	0.0	0.0	0.4
SiO2 (%)	41.6	0.0	0.0	0.0	41.6
Marginal (t)	0	0	0	0	0
Waste (t)	187,754	0	0	0	187,754
Total(t)	404,318	0	0	0	404,318
SR	0.87	0.00	0.00	0.00	0.87

<u>Aqqaluk</u>	Q1	Q2	Q3	Q4	2012 Total
Ore (t)	716,926	936,835	964,374	938,043	3,556,178
NSR (\$/t)					
Zn (%)					
Pb (%)					
sPb (%)	0.8	1.0	0.7	0.7	0.8
Ag (g/t)					
Fe (%)	3.7	3.9	3.2	3.4	3.5
Ba (%)	6.1	8.0	9.5	7.4	7.9
TOC (%)	0.2	0.2	0.2	0.2	0.2
SiO2 (%)	48.5	43.3	43.5	47.1	45.4
Marginal (t)	0	0	0	0	0
Waste (t)	2,319,113	2,543,700	2,500,471	1,956,039	9,319,323
Total(t)	3,036,039	3,480,535	3,464,845	2,894,082	12,875,501
SR	3.23	2.72	2.59	2.09	2.6

<u>Total</u>	Q1	Q2	Q3	Q4	2012 Total
Ore (t)	933,490	936,835	964,374	938,043	3,772,742
NSR (\$/t)					
Zn (%)					
Pb (%)					
sPb (%)	0.9	1.0	0.7	0.7	0.8
Ag (g/t)					
Fe (%)	4.6	3.9	3.2	3.4	3.7
Ba (%)	5.5	8.0	9.5	7.4	
TOC (%)	0.3	0.2	0.2	0.2	
SiO2 (%)	46.9	43.3	43.5	47.1	45.2
Marginal (t)	0	0	0	0	0
Waste (t)	2,506,867	2,543,700	2,500,471	1,956,039	9,507,077
Total(t)	3,440,357	3,480,535	3,464,845	2,894,082	13,279,819
SR	2.7	2.7	2.6	2.1	2.52
Ag in Zn conc (g/dmt)					
Ag in Pb conc (g/dmt)					
Zn/Fe					
Zn/Pb tot	4.0	3.7	4.0	4.1	4.0
sPb/Pb					
Zn/TOC					
Zn conc (t)					
Pb conc (t)					
Total Conc (t)					

3. EQUIPMENT FLEETS

Table 3-1 Monthly Non-production Projects Hours

Projects	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Non-Capital Project													
Drill hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Loader hours	0	0	0	0	40	40	40	40	40	0	0	0	200
Haultruck hours	0	0	0	0	95	95	95	95	95	0	0	0	476
Dozer hours	0	0	0	0	0	0	0	0	0	0	0	0	0
MWD 3:1 reslope													
Drill hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Loader hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Haultruck hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Dozer hours	0	0	0	66	48	36	176	196	200	0	0	0	723
Aqqaluk topsoil stripping													
Drill hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Loader hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Haultruck hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Dozer hours		0	0	0	0	0	0	0	0	0	0	0	0
quarries													
Drill hours	0	0	0	0	65	65	65	65	0	0	0	0	259
Loader hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Haultruck hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Dozer hours	0	0	0	0	20	30	30	10	0	0	0	0	90
Infill drilling pad preparation													
Drill hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Loader hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Haultruck hours	0	0	0	0	0	0	0	0	0	0	0	0	0
Dozer hours	69	65	69	67	69	67	69	69	67	69	67	69	815
Total													
Drill hours	0	0	0	0	65	65	65	65	0	0		0	259
Loader hours	0	0	0	0	40	40	40	40	40	0	0	0	200
Haultruck hours	0	0	0	0	95	95	95	95	95	0	-	0	476
Dozer hours	69	65	69	133	137	133	275	275	267	69	67	69	1627

Table 3-2 2012 Monthly Equipment Performance Forecast

Production Drifts Prod	Month Duration (days)	Jan-12 31	Feb-12 29	Mar-12 31	Apr-12 30	May-12 31	Jun-12 30	Jul-12 31	Aug-12 31	Sep-12 30	Oct-12 31	Nov-12 30	Dec-12 31	Total 366
Units available (er) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Production Drills													
Hours available per unit (op hris)	Units required (#)	2.8	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.3	2.3	2.3	2.7
Drilling hours required (op hrs) 1020.4 923.4 1066.9 1039.9 1017.4 987.7 1023.3 1015.7 995.7 863.8 833.2 852.4 11639.8 Redrilling hours required (op hrs) 80.8 81.3 93.9 915. 89.5 80.9 10.1 804.8 77.5 76.0 1024.3 75.0 1024.3 1015.7 1024.3 1015.7 1024.3 1015.7 1024.3 1015.7 1024.3 1015.7 1024.3 1015.7 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 1024.3 10	Units available (#)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Redrilling hours required (op hrs) Project hours required (op hrs) Total hours required (op hrs)	Hours available per unit (op hrs)	400.0	374.2	400.0	387.1	400.0	387.1	400.0	400.0	387.1	400.0	387.1	400.0	4722.3
Redrilling hours required (op hrs) Project hours required (op hrs) Total hours required (op hrs)	,													
Redrilling hours required (op hrs) Project hours required (op hrs) Total hours required (op hrs)	Drilling hours required (op hrs)	1020.4	923.4	1066.9	1039.9	1017.4	987.7	1023.3	1015.7	995.7	863.8	833.2	852.4	11639.8
Project hours required (op hrs) Total hours required (op hrs) Tota				93.9			86.9		89.4	87.6				1024.3
Total hours required (op hrs) 110.2 100.4 110.2 33.4 33.6 33.6 33.6 37.2 39.5 379.8 39.2 39.0 38.1 31.3 33.3 33.4 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 3														
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Use Availability (%) 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0% 64.0%	Physical Availibility (%)	84 0%	84 0%	84 0%	84.0%	84.0%	84 0%	84.0%	84 0%	84 0%	8/1 0%	84.0%	84.0%	84.0%
Efficiency (%) 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.8% 53.														
2. Production Loaders Units required (#) 4.7 4.6 4.9 4.9 4.8 4.8 4.8 4.8 4.8 4.2 4.1 4.1 4.1 4.8 Units required (b) rs) 1. September 1														
Units required (#) Units available (#) Hours a		33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070	33.070
Hours available per unit (op hrs) 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 499.0 422.6 49		17	16	4.0	4.0	10	10	10	10	10	12	11	11	4.6
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reclaim hours required (op hrs) 1425.0 388.9 424.1 382.5 438.2 421.8 419.5 446.5 413.0 441.6 377.1 425.3 5003.6 300.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.0 400.	oro bours required (so book	240.0	200.0	240.4	2440	200 7	247.0	245.0	207.0	240.0	202.5	240.4	250.4	4140.7
waste hours required (op hrs) 1114.9 1003.9 1188.4 1193.1 1095.3 1067.4 1125.6 1083.4 1089.8 851.8 876.5 852.3 12542.3 project hours required (op hrs) 0.0 0.0 0.0 0.0 40.0 40.0 40.0 40.0 40.0 0.0 0.0 0.0 200.0 total hours required (op hrs) 398.8 362.1 413.1 398.2 407.7 395.4 406.9 408.3 396.7 352.2 332.9 346.4 4618.7 Physical Availability (%) 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 80.0% 8														
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Use Availability (%) 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 71.0% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.														
## Stricency (%) 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.8% 56.														
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Units available (#) 12.0 12.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 7.0 7.0 7.0 7.0 8.99 Hours available per unit (op hrs) 485.0 453.7 485.0 469.4 485.0 469.4 485.0 469.4 485.0 469.4 485.0 469.4 485.0 5726.3 ore hours required (op hrs) 1038.9 943.4 934.2 824.1 944.2 908.7 903.8 962.1 889.8 951.5 812.5 916.4 11029.6 reclaim hours required (op hrs) 3676.0 3510.8 2663.7 2613.9 2399.4 2338.4 2466.0 2373.4 2387.4 1866.0 1920.1 1867.1 30082.4 non-pit hours required (op hrs) 104.1 97.4 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 10	Haul Trucks													
Hours available per unit (op hrs)	Units required (#)	10.8	10.9	8.5	8.3	8.2	8.2	8.2	8.2	8.2	6.9	6.8	6.8	8.3
Hours available per unit (op hrs)														
ore hours required (op hrs)	Hours available per unit (op hrs)	485.0	453.7	485.0	469.4	485.0	469.4	485.0	485.0	469.4	485.0	469.4	485.0	5726.3
reclaim hours required (op hrs)	,													
reclaim hours required (op hrs)	ore hours required (op hrs)	1038.9	943.4	934.2	824.1	944.2	908.7	903.8	962.1	889.8	951.5	812.5	916.4	11029.6
waste hours required (op hrs) a 3676.0 3510.8 2663.7 2613.9 2399.4 2338.4 2466.0 2373.4 2387.4 1866.0 1920.1 1867.1 3082.4 100.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 100.7 104.1 1														
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Use Availability (%) 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.	total flours per utilit (op fils)	455.4	410.2	450.5	400.0	440.2	421.3	441.1	440.1	423.7	411.0	450.2	470.5	3234.7
Use Availability (%) 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.	Physical Availability (%)	82 0%	82 0%	82 0%	82 0%	82 0%	82 0%	82 0%	82 0%	82 0%	82 0%	82.0%	82 0%	82.0%
Efficiency (%) 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.2% 65.														
4. Dozers Units required (#) 2.7 2.6 2.7 2.9 2.9 2.9 3.3 3.4 3.4 2.6 2.5 2.6 2.9 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0														
Units required (#) 2.7 2.6 2.7 2.9 2.9 2.9 3.3 3.4 3.4 2.6 2.5 2.6 2.9 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0		03.276	05.270	03.270	03.270	03.270	03.270	03.270	05.276	03.270	05.276	03.270	05.270	UJ.2 /0
Units available (#) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0		2.7	2.6	2.7	2.0	2.0	2.0	2.2	2.4	2.4	2.6	2.5	2.6	2.0
Hours available per unit (op hrs) 301.7 282.2 301.7 291.9 301.7 291.9 301.7 291.9 301.7 291.9 301.7 291.9 301.7 3561.5 ore hours required (op hrs) 32.9 30.1 32.8 29.6 33.9 32.7 32.5 34.6 32.0 34.2 29.2 32.9 387.3 reclaim hours required (op hrs) 140.2 128.3 139.9 126.2 144.5 139.1 138.4 147.3 136.2 145.7 124.4 140.3 1650.4 COSP hours required (op hrs) 92.6 84.7 92.4 83.3 95.4 91.9 91.4 97.3 89.9 96.2 82.1 92.6 1089.8 waste hours required (op hrs) 78.7 70.8 83.8 84.2 77.3 75.3 79.4 76.4 76.9 60.1 61.8 60.1 884.9 other mining hours required (op hrs) 283.8 265.5 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8 274.7 283.8														
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total hours per unit (op hrs) 201.4 186.4 202.6 208.9 220.2 212.8 252.4 255.8 245.3 199.4 186.0 196.8 2568.0 Physical Availability (%) 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 79.5% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0%	total hours required (op hrs)	805.7	745.5	810.3		880.6	851.3		1023.4	981.3	797.5	744.0	787.4	
Use Availability (%) 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0%	total hours per unit (op hrs)	201.4		202.6		220.2	212.8		255.8	245.3	199.4		196.8	
Use Availability (%) 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0% 51.0%	. , , ,													
			79.5%					79.5%		79.5%			79.5%	79.5%
	Use Availability (%)		51.0%						51.0%					51.0%
		40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%	40.5%

4. APPENDICES

Appendix-I 2012 Mine Plan Maps (by month)

Appendix-II 2012 Mine Plan 3D View and End of Period Surface (by month)

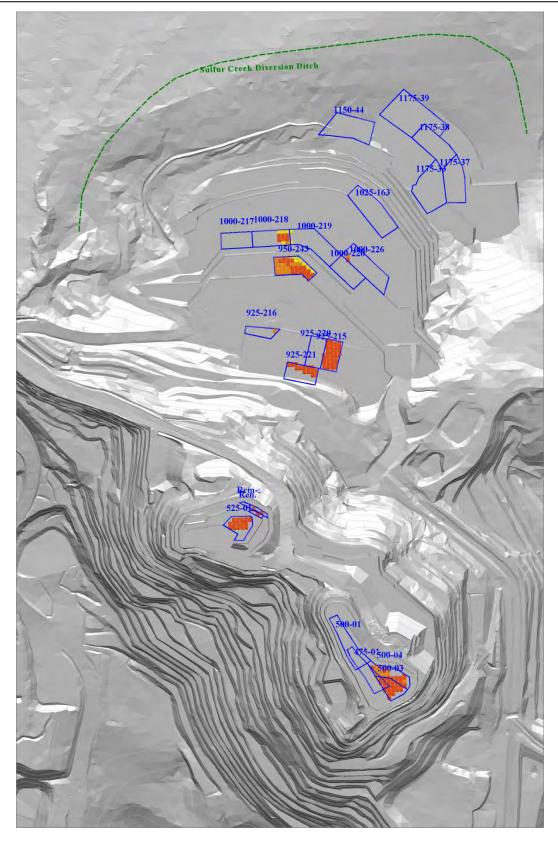


Figure 4-1 Jan-2012 Mine Plan 3D View

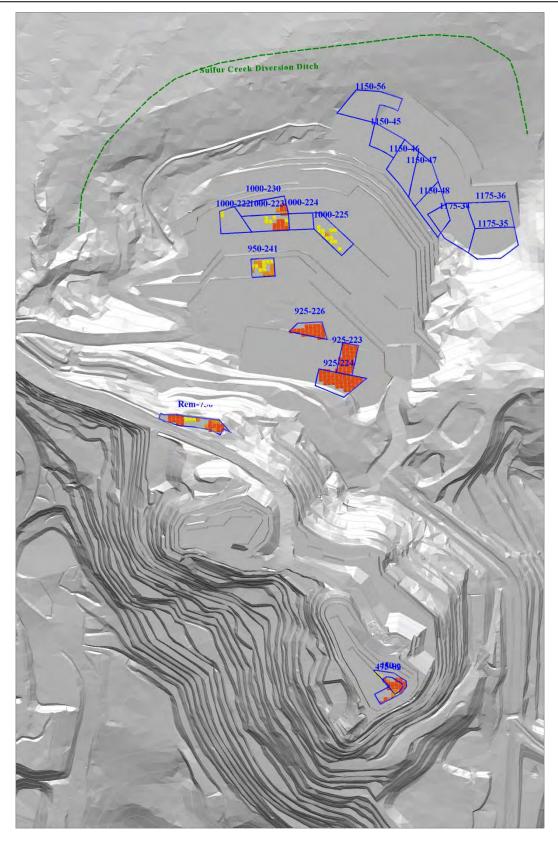


Figure 4-2 Feb-2012 Mine Plan 3D View

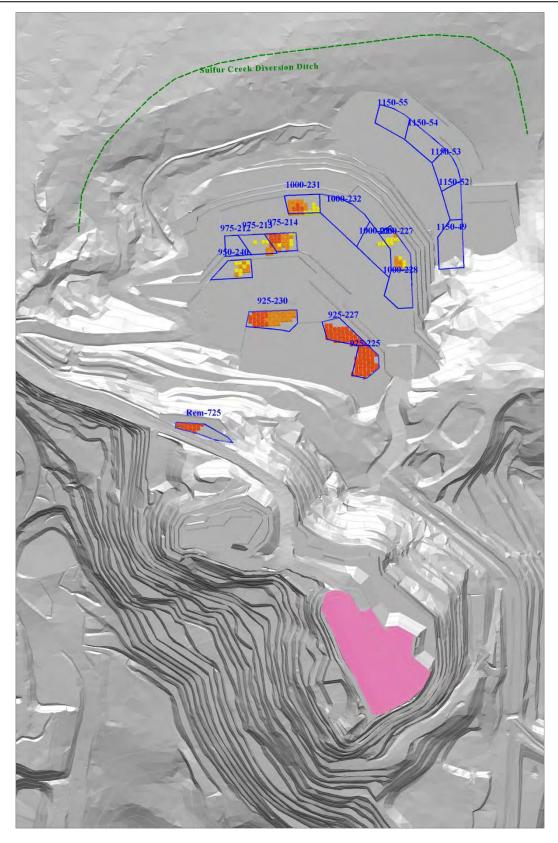


Figure 4-3 Mar-2012 Mine Plan 3D View

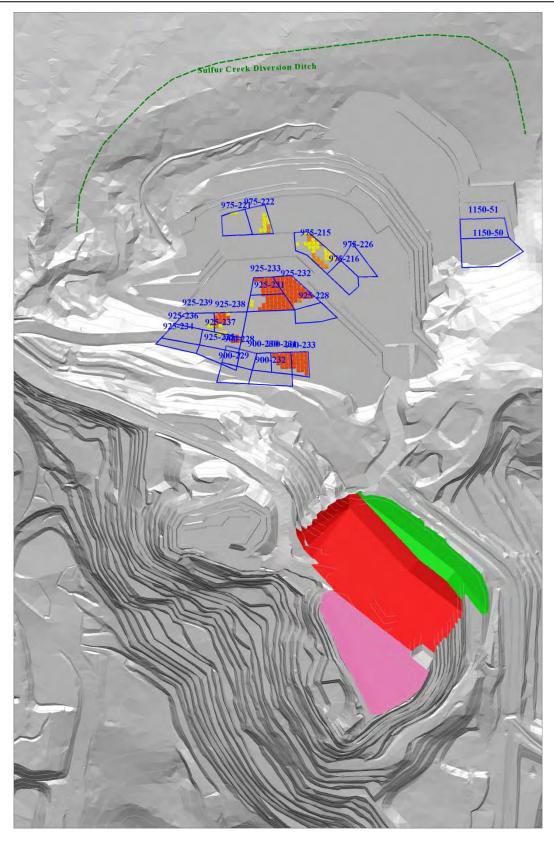


Figure 4-4 Apr-2012 Mine Plan 3D View

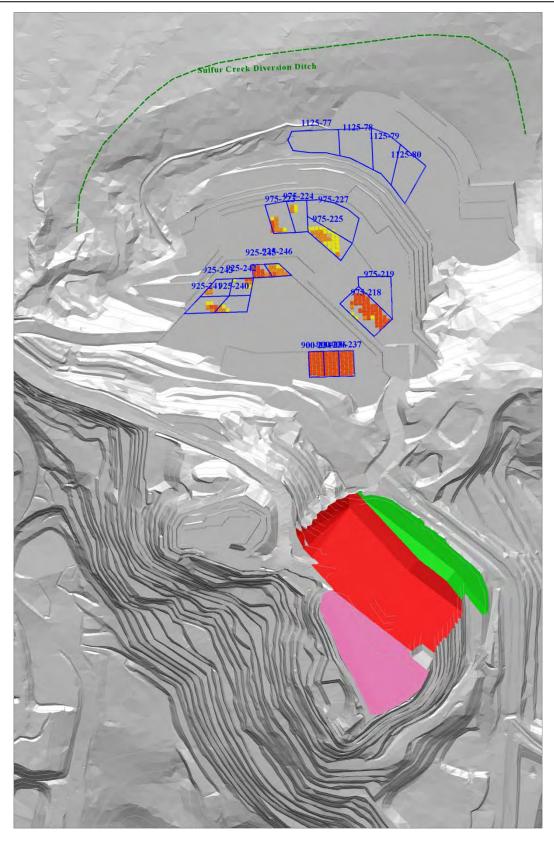


Figure 4-5 May-2012 Mine Plan 3D View

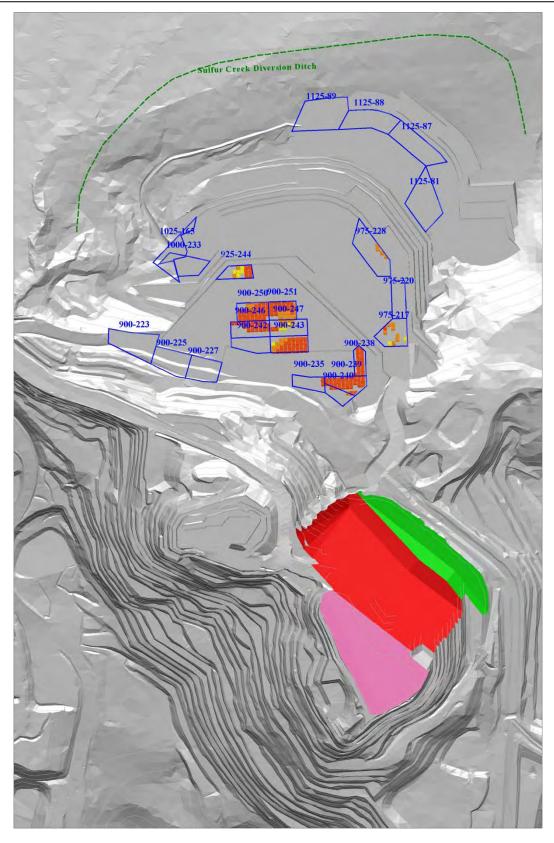


Figure 4-6 Jun-2012 Mine Plan 3D View

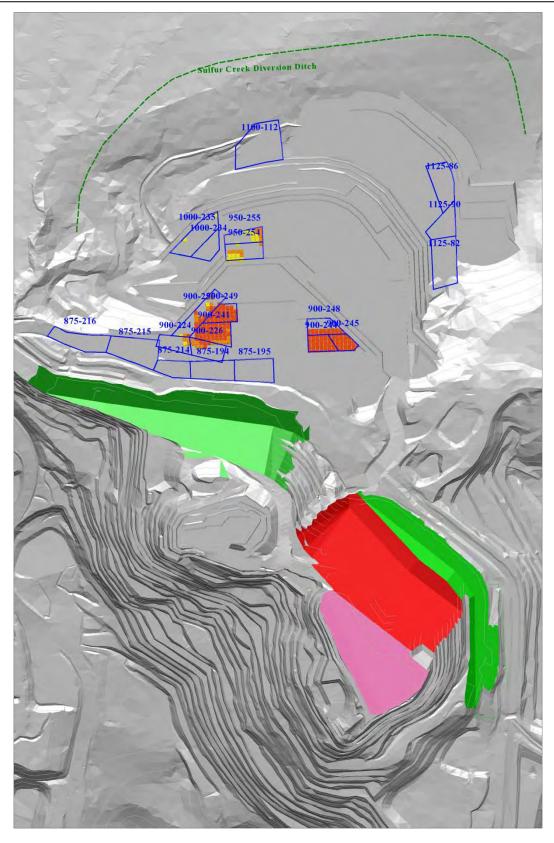


Figure 4-7 Jul-2012 Mine Plan 3D View

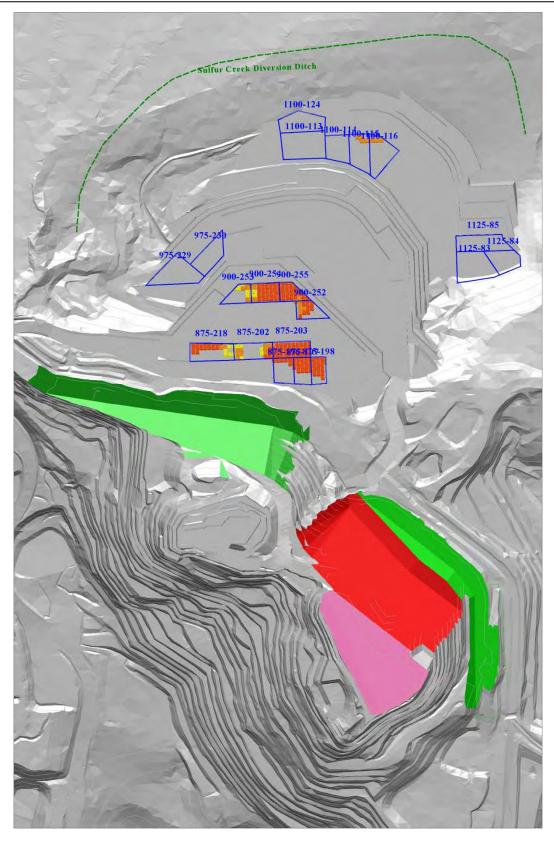


Figure 4-8 Aug-2012 Mine Plan 3D View

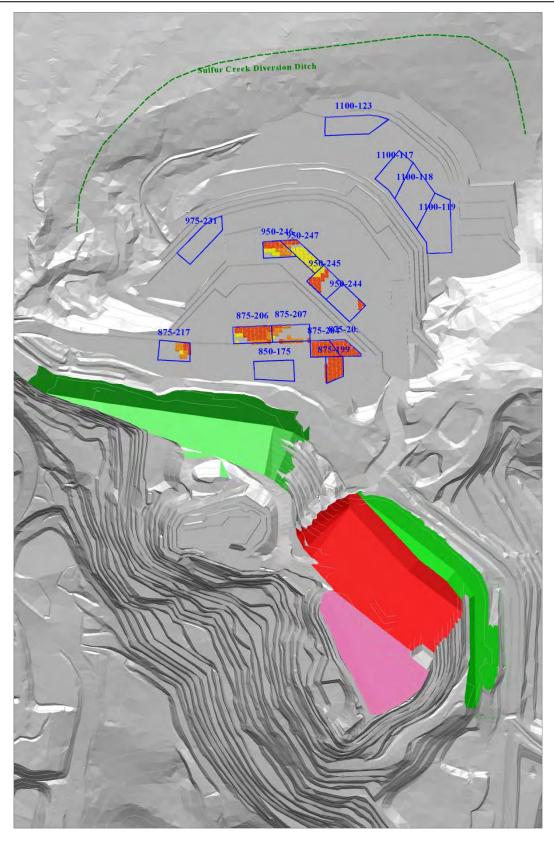


Figure 4-9 Sep-2012 Mine Plan 3D View

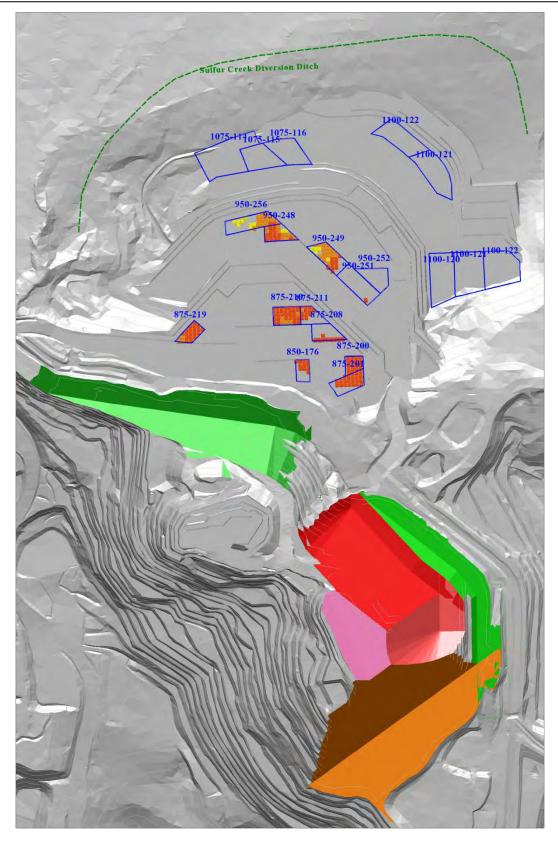


Figure 4-10 Oct-2012 Mine Plan 3D View

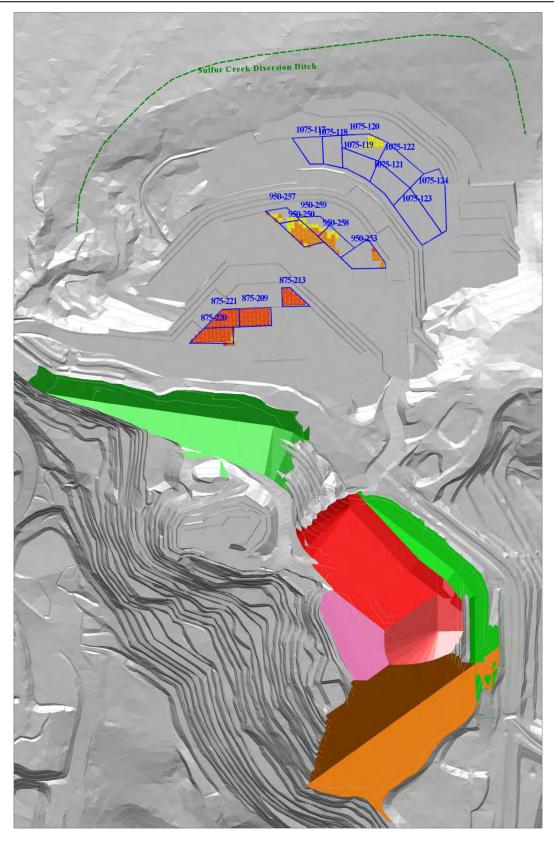


Figure 4-11 Nov-2012 Mine Plan 3D View

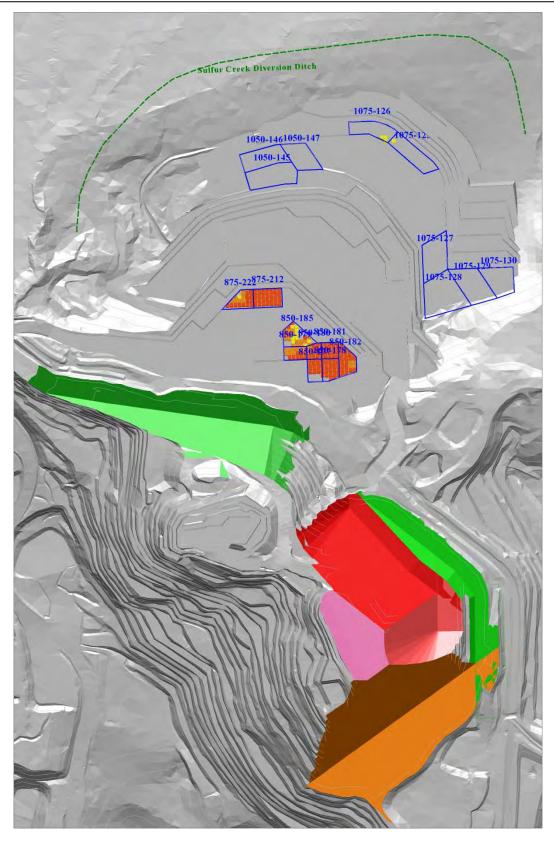


Figure 4-12 Dec-2012 Mine Plan 3D View

