

**Cross-reference Index to Proposed Permit Document Changes Resulting
From Trapper Mining Inc. Permit C-1981-010 PR-11 Submittal**

Permit Section	Page No(s)	Required Changes & Comments
T of C	i-3	PR-11 Mine Expansion Area Vegetation added with new pages 2-122r to 2-122y.
	i-4	Land Use and Capabilities for the PR-11 Expansion Area added with new page 2-181b; new soils section added with page 2-345x.
	i-5	Included new Figure 2.7-15g. PR-11 expansion area hydro monitoring locations.
	i-6	Archaeology section pages updated. Mining Sequence, Highwall Mining and Reclamation Plan sections updated. New page 3-15d added.
	iii-5	PR-11 Plant Species List added.
	iii-6	PR-11 Expansion Area soils mapping units added.
	iii-8	New Table 2.7-22aaa, groundwater for C, I & J Pits
	iii-9	New Tables 2.7-18c and 2.7-22aaa on page iii-8 pushed Table 2-7-22b onto this page.
	iv-2	Reference to new map M-29B added.
	iv-4	Reference to new map M-48B added.
1.1	1-3	Figure 1.1-1 revised to include expanded permit boundary.
1.2.1	1-5 to 1-6	Updated officers and directors of Trapper Mine.
1.2.1a	1-7 to 1-7a	Updated officers and directors of Trapper's owners.
1.2.2	1-11	Updated Table 1.2-2 for affiliate operations permits.
1.3.1	1-15a	Updated the list of surface owners within and contiguous to the Trapper Mine permit area.
1.4	1-31 to 1-36	Updated bond replaces previous bond to reflect new mine plan.
1.7.1	1-64	New PR-11 public notice information page.
	1-65	Figure 1.7. New PR-11 public notice information.
1.7.2	1-68	Included I/J Pits Expansion into permit boundary description.
	1-69	Page 1-69 is deleted.
2.3.7	2-122r to 2-122y	New PR-11 Expansion area vegetation discussion.
2.5	2-170	Updated land use discussion for PR-11 expansion area.
2.5.5	2-181b	Add land use discussion for PR-11 expansion area.
2.6	2-182	Update soils discussion for PR-11 expansion area.
2.6.4	2-345x	Insert new soils information for PR-11 expansion area.
2.7.3	2-393	Figure 2.4-5. Updated typical stratigraphic section of the Trapper Mine area.

Permit Section	Page No(s).	Required Changes & Comments
2.7.4.1	2-414o 2-414p	Updated water yield discussion for PR-11 expansion area. New Figure 2.7-15g. Gives new and historic surface hydrology locations for West Panel area.
2.7.4.2	2-451y 2-451z to 451mm	New page updates surface water sampling for PR-11. Table 2.7-18c. Surface water quality updates for PR-11 expansion area.
2.7.5.1	2-456 to 2-457	Table 2.7-20. Table updated to include new well GX-1 data.
2.7.5.2d	2-520yy 2-520zz 2-520hhhh to 2-520uuuu	Updated for PR-11 expansion area and CY wells. Revised by lines from page 2-520yy pusing onto page. Adds new Table 2.7-22aaa; groundwater data for the I and J Pits area.
2.7.5.3d	2-523aa	PR-11 updates
2.7.5.4b	2-524i	Updated to reference PR-11 expansion area in heading.
2.9.1	2-588 2-588a 2-590a 2-591	PR-11 expansion area sites included on list. 2020 Metcalf surveys described. Section 2.9.1 moved here. Site 5MF979 moved to this page. 2020 sites described. Site 5MF979 description relocated to page 5-590a.
3.1.4	3-10 3-11 3-13	Revised maximum annual production in Table 3.1-1. Updated major equipment list (highwall miner) in Table 3.1-2. Re-do disturbance/reclamation Table 3.1-3 for PR-11.
3.1.4.1	3-15 to 3-15b	Updated mining sequence narratives.
3.1.4.2	3-15b	Updated highwall mining discussion.
3.1.5	3-15c to 3-15d	Removed duplicated paragraph. A new reclamation plan description for C pit is added. New text necessitated new page 3-15d.
3.1.7	3-17 3-18	Changed permanent cessation date and end of mine life discussion. Changed permanent cessation date.
3.4	3-28a 3-28b 3-29	Updated Table 3.4-1: pre-blast survy information. Updated Table 3.4-2: other structures list. Updated blasting public notice, Figure 3.4-1.
3.5.2	3-39	Removed K Pit backfill discussion; no longer relevant.
3.5.3	3-40 3-42	Updated term of permit references to Map M-12. Added buzzard drainages impacted for permit term.
3.5.3.1	3-43b to 3-43c	Updated these AOC Variance pages with L Pit hydrology changes.
3.5.4	3-44	Updated boxcuts discussion for C, N, I & J Pits.

Permit Section	Page No(s).	Required Changes & Comments
3.8	3-179	Updated status of IWP discharge to recycling.
3.8.1	3-181	Changed end of mine life discussion.
	3-182	Changed end of mine life discussion. Revised SPCC definition.
	3-183	Changed from "when coal exhausted" to "end of contract."
3.8.3	3-194	Telephone line reroute paragraph deleted, since no longer relevant.
3.8.4	3-194	Changed end of mine life discussion.
4.1.1	4-3	Archaeology sites in PR-11 expansion area discussion included on page; page 4-3a paragraphs added to this page.
4.1.2	4-3a	Paragraphs from this page moved to page 4-3.
4.6.2.4	4-161	Updated Prairie Falcon permit term discussion.
4.8.1.1	4-172a	Updated water depletion Table 4.8-1 for USFWS.
4.8.1.2	4-174 to 4-174a	Updated culvert table 4.8-2 with additional information for both existing and future culverts, in line with Map M51.
	4-175	Updated additional culvert table (4.8-2A).
	4-177	Updated diversion ditch table (4.8-3).
4.8.1.4	4-184	Updated permit term dates and number of ponds.
	4-186a	Updated sediment ponds table (Table 4.8-6, pg 3) to include Buzzard ponds.
	4-190a	Updated Embankment Designs (Table 4.8-7, pg 3) to include Buzzard ponds.
4.8.1.5a	4-222gg	Updated Table 4.8-8b to include Buzzard outfalls.
4.8.2.2	4-225	Updated dewater wells discussion for PR-11.
4.8.2.2a	4-226d to 4-226e	Updated permit term and pits discussion.
4.8.5.1	4-239	Updated Surface Water Monitoring discussion.
	4-240	Updated Table 4.8-11 to include new Buzzard outfalls.
	4-241a	Updated discussion of current watershed disturbances.
4.8.5.2	4-242 & 4-247a	Updated Groundwater Monitoring discussion.
	4-245	Updated Table 4.8-13a to add well GX-1 to groundwater monitoring schedule.
4.9.4	4-261 to 4-262	Tables 4.9-3 and 4.9-4. Updated these term of permit topsoil balance tables.

Appendix	Permit Volume(s)	Required Changes & Comments
Appen A	V	Replaced existing bond backup with PR-11 bond backup.
Appen B	V-A	Replaced cover page and text (pages 1-11) with PR-11 hydrology updates. Replaced Attachment 2 with updated hydrology evaluation.
Appen Q	VII-A VII-A VII-A	Added new Section I (West Buzzard hydrologic model) info to historic information. Added new Section II (East Buzzard hydrologic model) info to historic information. Added C Pit, West Coyote, Johnson Stockpile East & West and N Pit Diversions models to Section XVII.
Appen S	VIII	Revised Appendix S map and added certification for I Pit bypass.
Appen V	VIII	Added GX-1 Well Permit and monitoring log.

Map No.	Permit Volume(s)	Required Changes & Comments
M-1	IX	Revised Surface Ownership map to include PR-11 expansion perimeter.
M-2	IX	Revised Sub-surface Ownership map to include PR-11 expansion perimeter.
M-3	IX	Revised 3-set Pre-Mine Topo map for the PR-11 expansion.
M-4	IX	Revised this 1,000 scale Life of Mine Plan for PR-11.
M-4A	IX	Revised this 1,000 scale Pit Boundaries/Disturbance map for PR-11.
M-6	X	Revised this 3-set 400 scale Bonding map for PR-11
M-7	X	Revised this 1,000 scale Roads and ID Signs map for PR-11.
M-9	X	Revised this 3-set 400 scale Haulroads map for PR-11
M-10A	X	Revised this 3-set 400 scale Mining and Regrade map for PR-11.
M-10B	X	Revised this 3-set 400 scale Topsoil Stripping & Reclamation map for PR-11.
M-12	XI	Revised this 3-set 400 scale Postmining Topo map for PR-11.
M-13A	XII	Revised this 3-set 400 scale Facilities map for PR-11.
M-13B	XII	Updated this 1000 scale Office/Shop Facilities map.
M-13C	XII	Updated this 1000 scale EP Ready Line Facilities map.
M-14	XII	Revised this 2-set Drainage Profiles map series in line with PR-11 changes to Map M-12.

Map No.	Permit Volume(s)	Required Changes & Comments
M-14A	XII	Revised Pre and Post Mining Topo Cross-sections in line with PR-11 changes to Map M-12.
M-16	XII	Revised Mine Plan Area Vegetation Prior to Mining map to include PR-11 expansion perimeter.
M-28	XIII	Revised Lands Possibly Used for Farming Prior to Mining to include PR-11 expansion perimeter.
M-29B	XIII	New PR-11 Expansion Area Soils map.
M-31	XIII	Updated 2000 scale Water Rights map to include PR-11 expansion perimeter.
M-45	XIV	Updated this Cultural Resources map for the PR-11 expansion.
M-47A	XV	Updated this 2-set 400 scale Utility Waste Disposal map.
M-48B	XV	New Baseline Vegetation map for the PR-11 expansion area.
M-51	XVI	Revised this 3-set 400 scale Drainage & Sediment Control Plan map for PR-11.
M-52	XVI	Updated this 1000 scale Hydrology Monitoring Sites map.