From: Jim Scott [mailto:jr.scott@frontiernet.net] Sent: Thursday, February 07, 2013 6:52 AM

To: Ross Vellacott

Cc: Kearney Christie; Ryan Lisson

Subject: Fw: NorthMet: Vegetation Section

Ross

I asked Christie to look into this - her response is below.

As Christie explains, the discrepancies noted are because the table referenced in the ROMP is for acres at the end of Mine Year 1 not final for maximum footprint.

The OSLA is discussed in the ROMP but no acres currently provided (Christie has provided below). The plan is that this level of detail will be provided in the Contingency Reclamation Estimate that will be included with the permitting version of the ROMP.

Roads, parking lots and building areas are discussed in the Reclamation Plan but no acres currently provided (Christie has provided below). The plan is that this level of detail will be provided in the Contingency Reclamation Estimate that will be included with the permitting version of the Reclamation Plan.

Please confirm that this response is satisfactory or if additional information is required.

Jim

From: Christie Kearney
Sent: Wednesday, February 06, 2013 11:11 AM To: 'Jim Scott' Subject: RE: NorthMet: Vegetation Section

Jim, I added 2 columns to the table below to provide a response with: final footprints and comments. Please note, ROMP v5 'Stockpile Acres to be Reclaimed' and 'Liner Acres to be Reclaimed' are rows from ROMP v5 Table 7-1 (Key Reclamation Cost Parameters), which are the sizes of stockpiles after Mine Year 1 only, not for the entire 20 years of operations. ROMP v5 Table 2-3 (Maximum Stockpile Dimensions) should be referenced instead for the maximum stockpile sizes.

Please note, the table below only includes the Mine Site features. If ERM also needs roads, parking areas and buildings for the Plant Site, I'll have to do some additional calcs to get those numbers. Give me a call if you have questions. thanks!

		ROMP v5	ROMP v5		
	PD v4	"Stockpile	"Liner Acres	Final	
	"Max Footprint	Acres to be	to be	Footprint	
Category	Acres"	Reclaimed"	Reclaimed"	(acres)	Comments
Cat. 1 Stockpile	<mark>526</mark>	<mark>201</mark>	-	526	From ROMP v5 Table 2-3 (and PD Table 4-6)
Cat. 2/3 Stockpile	<mark>180</mark>	-	180	180	From ROMP v5 Table 2-3 (and PD Table 4-6)
Cat. 4 Stockpile	<mark>57</mark>	-	<mark>29</mark>	57	From ROMP v5 Table 2-3 (and PD Table 4-6)
Ore Surge Pile	<mark>31</mark>	-	<mark>31</mark>	31	From ROMP v5 Table 2-3 (and PD Table 4-6)
OSLA	<mark>?</mark>	<mark>.</mark>	?	41	Not provided in a management plan
	?	?	?	116	Not provided in a management plan; this is for the Mine Site only. Max haul roads and access road provided. Note: 30 of these
Roads					acres will remain long-term (not reclaimed)
				0	Not provided in a management plan; this is for the Mine Site only. None (parking in OSLA, Mine Fueling and Maintenance Facility, and WWTF; these are already
Parking Areas					accounted for in this table).

			Not provided in a management plan; this is
			for the Mine Site only. This only includes the
			Mine Fueling and Maintenance Facility
		2	footprint (entire footprint, not just
			buildings); it does not include the WWTF,
			which will remain long-term (not
Buildings			reclaimed).

Christie Kearney, PE

MS Civil Engineering Senior Water Resources Environ. Engineer Hibbing office: 218.262.8629 cell: 218.969.4355 ckearnev@barr.com www.barr.com

resourceful. naturally.

From: Jim Scott [mailto:jr.scott@frontiernet.net] Sent: Tuesday, February 05, 2013 9:53 PM

To: Christie Kearney

Subject: Fw: NorthMet: Vegetation Section

Christie

Can you help with this

From: Ross Vellacott

Sent: Tuesday, February 05, 2013 11:24 AM To: mailto:jr.scott@frontiernet.net Cc: Ryan Lisson; Pat Fleischauer Subject: FW: NorthMet: Vegetation Section

Hi Jim

Please see Ryan's email below.

We have identified a couple of discrepancies and gaps (for our drafting needs) in the maximum impact footprint and reclamation acreages in the PD ver4 and ROM. Are you able to help clarify for us and confirm if any errors need to be corrected in the MP / PD to ensure consistency.

Thanks

Ross

Ross Vellacott: +1 216-593-5210

Environmental Resources Management (ERM)

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From: Ryan Lisson

Sent: Friday, February 01, 2013 2:59 PM

To: Ross Vellacott Cc: Pat Fleischauer

Subject: NorthMet: Vegetation Section

Hey Ross,

I looked through the new Reclamation Plan and new Rock and Overburden Management Plan. As we discussed on the phone, the Project Description v4 lists "Max footprint acres" for the Cat. 1 Stockpile and Cat. 4 Stockpile that do not match the Rock and Overburden Management Plan v5 list of "Acres to be reclaimed" (as highlighted yellow below). The acres of these two categories do match for the Cat. 2/3 Stockpile and Ore surge Pile, however (as highlighted green below).

Neither of the plans fill the gap in my chapter regarding acres of OSLA or roads, parking areas, buildings to be reclaimed. That specifically was in our initial request of gaps that we sent to PolyMet/Barr.

	PD v4 "Max ROMP v5 "Stockpile		ROMP v5 "Liner Acres
	Footprint Acres"	Acres to be	to be Reclaimed"
Category		Reclaimed"	
Cat. 1 Stockpile	<mark>526</mark>	<mark>201</mark>	-

Cat. 2/3 Stockpile	180	-	180
Cat. 4 Stockpile	<mark>57</mark>	-	<mark>29</mark>
Ore Surge Pile	<mark>31</mark>	-	<mark>31</mark>
OSLA	<mark>?</mark>	<mark>?</mark>	<mark>?</mark>
Roads, Parking Areas,	Ö	2	<u>5</u>
Buildings	•	<u> </u>	

Thanks,

Ryan J. Lisson

Environmental Resources Management | ERM 190 East 5th Street, Suite 255

St. Paul, MN 55101 Phone: 651-846-2875 Email: ryan.lisson@erm.com

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