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COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

TR04

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- 2008-078 Site Name: West Farm Pit

County Prowers TR# _____ (DRMS Use only)

Permittee: GP Aggregates, LLC

Operator (If Other than Permittee): _____

Permittee Representative: Todd Yee - J&T Consulting, Inc.

RECEIVED

Please provide a brief description of the proposed revision: _____

Revision of mine phasing and revision of financial warranty.

JAN 23 2015

DIVISION OF RECLAMATION
MINING AND SAFETY

As defined by the Minerals Rules, a Technical Revision (TR) is: "a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan." The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered "filed for review" until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	<input checked="" type="checkbox"/>
112 hard rock (not DMO)	\$175	<input type="checkbox"/>
110d, 112d(1, 2 or 3)	\$1006	<input type="checkbox"/>

✓ AF & Report
✓ No Violations



J&T Consulting, Inc.

January 20, 2015

Ms. Amy Eschberger
Environmental Protection Specialist
State of Colorado
Division of Reclamation, Mining, & Safety
1313 Sherman Street – Room 215
Denver, CO 80203

RE: *GP Aggregates, LLC. – West Farm Pit – Technical Revision No. 4 Request
File No. M-2008-078*

Dear Ms. Eschberger,

GP Aggregates, LLC. (GP) requests a revision to their existing permit to address the following 2 items:

1. Exhibit C – Pre-Mining/Mining Plan
 - a. Revision of the mine phasing.
2. Exhibit L – Reclamation Costs
 - a. Revision of the financial warranty required for the reclamation of each phase of mining.

Detailed descriptions of these revisions are in the following sections.

Exhibit C – Pre-Mining/Mining Plan

Revision of mine phasing

Phase 1A is being revised to include all of the following:

1. Surface mining of the top 10 to 12 feet of material above the groundwater table of the Phase 1 area.
2. The disturbance and stockpiling of materials in the Phases 2 through 4 areas.
3. The disturbance and stockpiling of materials in the Phase 13 area.
4. The disturbance and stockpiling of materials in the temporary topsoil/overburden stockpile area in the southeast corner of the mine
5. The disturbance and stockpiling of materials in the Phases 14 through 18 areas.

Exhibit L - Reclamation Costs

GP requests a revision to the financial warranty required for the reclamation of each phase of mining to reflect the revised mine phasing.

1. A revised Exhibit L – Reclamation Costs and supporting calculations are attached which summarize the revision to the financial warranty requirements, including a revision to the financial warranty required for Phase 1A to include additional disturbance and stockpiling in the Phases 14 through 18 areas.



- 2 -

GP appreciates your consideration of this revision request and looks forward to your response.

Please feel free to contact me with any questions or comments.

Sincerely,



Todd Yee
J&T Consulting, Inc.

Attachments:

Revised Exhibit C – Pre-Mining/Mining Plan Map
Revised Exhibit L – Reclamation Costs and Reclamation Costs Summary Table
Revised Financial Warranty Requirement Calculations
\$216 Check for Technical Revision review fee

Cc: GP Aggregates, LLC.
File





J&T Consulting, Inc.

LETTER OF TRANSMITTAL

Date: 1/20/15 File No: 07115

Job Name: GP Aggregates, LLC - West Farm Pit

To: State of Colorado
Division of Reclamation, Mining, & Safety
1313 Sherman Street - Room 215
Denver, CO 80203

Phone: (303) 866-3567 x8129
Fax: (303) 832-8106

Attention: **Ms. Amy Eschberger - Environmental Protection Specialist**

WE ARE SENDING YOU:

Copies	Description
1	GP Aggregates, LLC - West Farm Pit, DRMS File M-2008-078 - Technical Revision Request No. 4
1	Check for \$216 for Technical Revision Review Fee

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Other: _____ | |
| <input type="checkbox"/> For Bids Due | | |

REMARKS:

Amy,

Please find attached 1 copy of GP Aggregates, LLC's Technical Revision Request No. 4 for GP Aggregates DRMS 112 Reclamation Operation permit, DRMS File M-2008-078, for the West Farm Pit. Please feel free to contact me with any questions or comments.

Regards,
Todd Yee

Copy To: GP Aggregates, File

Signed: 



Reclamation Cost

The slurry wall construction costs have been shown to be required at the start of Phase 1A and at the start of Phase 5 per the Division's Technical Revision No. 3 approval letter. A slurry wall has currently been constructed around Phases 1 through 4 and is being tested to ensure it meets the design standard in the "State Engineer Guidelines for Lining Criteria for Gravel Pits". Prior to mining outside of Phases 1 through 4, GP will provide the financial warranty for the remainder of the slurry wall construction required to close Phases 5 through 18.

A phased and cumulative bonding approach is proposed for the remainder of the West Farm Pit operation reclamation items. The financial warranty required for each phase is the warranty required to completely reclaim that phase.

The financial warranty required for each phase of mining includes cost components for the cumulative areas of scarification of ground, topsoil placement, and revegetation required to close the current mined area should the project be stopped. Because these cumulative areas change for each phase of mining, new areas required to close the mined area as the next phase of mining occurs were calculated, and the financial warranty required for these areas for the previous phase is credited back in each phase's required financial warranty calculation. This accurately calculates the additional financial warranty required for any given phase of mining and for the current limit of disturbance, as well as accounts for the financial warranty that has already been posted to ensure that the Division has sufficient cumulative financial warranty to complete the reclamation.

Direct costs related to the construction of the reclamation components that have been included in the financial warranty calculations include: Scarifying disturbed ground surfaces, re-applying topsoil over disturbed areas, revegetating disturbed areas, slurry wall construction, and contractor mobilization. The slurry wall costs are based on the average depth of the wall to calculate the per lineal foot cost. The slurry wall costs were reduced to 20% of the cost to construct the slurry wall under the regulated construction option detailed in the "Guide to Specification preparation for Slurry Walls and Clay Liners as a Component of a Colorado Mined Land Reclamation Permit". GP is eligible for this option because of the inclusion of design documents, plans and specifications, and a quality assurance program for the construction of the slurry wall in Technical Revision No. 3.

Overhead, profit, and project management costs were then calculated and added to the direct construction costs to arrive at the required financial warranty for each phase.

As each new phase is started, the financial warranty for that phase will be posted with the Division. When a phase has been reclaimed, inspected, and accepted by the Division, the associated financial warranty for that phase can then be released.

Please see the attached calculations for details of the costs and quantities used to determine the financial warranty required for each phase of mining.

The following table summarizes the financial warranty required for each phase, and the cumulative financial warranty that will be provided during any given phase.

Reclamation Cost Summary		
Phase	Additional Financial Warranty Required	Cumulative Financial Warranty
1A	\$924,630	\$924,630
1	(\$13,455)	\$911,174
2	(\$33,033)	\$878,141
3	(\$38,900)	\$839,241
4	(\$41,531)	\$797,710
5	\$369,626	\$1,167,335
6	(\$32)	\$1,167,303
7	\$3,914	\$1,171,218
8	\$0	\$1,171,218
9	(\$361)	\$1,170,856
10	\$3,931	\$1,174,787
11	\$44	\$1,174,831
12	\$1,542	\$1,176,373
13	(\$48,245)	\$1,128,127
14	(\$43,382)	\$1,084,745
15	(\$47,898)	\$1,036,847
16	(\$49,762)	\$987,086
17	(\$53,293)	\$933,793
18	(\$48,263)	\$885,530





Summary of Unit Costs (Taken from TR 3 Bond Calculation by DRMS)

Direct costs

	<u>Full Cost</u>	
Scarifying Ground	\$321.55	/ acre
Re-applying topsoil 12" thick	\$2,541.03	/ acre
Revegetating disturbed area	\$1,100.32	/ acre
Mobilization	\$13,592.00	lump sum

Slurry Wall Cost Breakdown (0-50 ft @ \$3/ft - 51-70 ft @ \$4/ft)

Slurry Wall Cost (45 foot average depth)	\$135 / linear foot	\$	<u>20% Cost</u>	27 / linear foot
Slurry Wall Cost (70 foot average depth)	\$280 / linear foot	\$		56 / linear foot

Overhead and Profit Costs

Liability insurance	2.02%	of direct cost
Performance bond	1.05%	of direct cost
Profit	10.00%	of direct cost
Total Overhead Cost	13.07%	of direct cost

Project Management

Engineering and bidding	2.00%	of direct cost
Management and administration	5.00%	of direct cost
Total Additional Cost	7.00%	of direct cost



Phase 1A (117.0 acres) (Limited to Surface Mining In PH 1-4 Area Above Groundwater Level)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
<u>Active Mining Area (Surface only in PH 1 Through Ph 4 Areas)</u>				
20% Cost of Slurry Wall Required to Close Phases 1-4 (70' avg Depth)	5,448	lf	\$56	\$305,088
<u>Active Mining Area (Surface only in PH 1 Area)</u>				
Topsoil Placement in Disturbed Area	9.25	ac	\$2,541	\$23,505
Revegetate Disturbed Area	9.25	ac	\$1,100	\$10,178
<u>Active Mining Area (Surface only in PH 2 Area)</u>				
Topsoil Placement in Disturbed Area	9.11	ac	\$2,541	\$23,149
Revegetate Disturbed Area	9.11	ac	\$1,100	\$10,024
<u>Active Mining Area (Surface only in PH 3 Area)</u>				
Topsoil Placement in Disturbed Area	9.81	ac	\$2,541	\$24,928
Revegetate Disturbed Area	9.81	ac	\$1,100	\$10,794
<u>Active Mining Area (Surface only in PH 4 Area)</u>				
Topsoil Placement in Disturbed Area	9.60	ac	\$2,541	\$24,394
Revegetate Disturbed Area	9.60	ac	\$1,100	\$10,563
<u>Temporary Stockpile Areas (Surface only in Phase 13)</u>				
Scarifying Ground in Disturbed Area	11.61	ac	\$322	\$3,733
Topsoil Placement in Disturbed Area	11.61	ac	\$2,541	\$29,501
Revegetate Disturbed Area	11.61	ac	\$1,100	\$12,775
<u>Temporary Stockpile Areas (Surface only in Stockpile Area, and Access Road)</u>				
Scarifying Ground in Disturbed Area	10.43	ac	\$322	\$3,354
Topsoil Placement in Disturbed Area	10.43	ac	\$2,541	\$26,503
Revegetate Disturbed Area	10.43	ac	\$1,100	\$11,476
<u>Temporary Stockpile Areas (Surface only in Phase 14)</u>				
Scarifying Ground in Disturbed Area	11.56	ac	\$322	\$3,717
Topsoil Placement in Disturbed Area	11.56	ac	\$2,541	\$29,374
Revegetate Disturbed Area	11.56	ac	\$1,100	\$12,720
<u>Temporary Stockpile Areas (Surface only in Phase 15)</u>				
Scarifying Ground in Disturbed Area	11.52	ac	\$322	\$3,704
Topsoil Placement in Disturbed Area	11.52	ac	\$2,541	\$29,273
Revegetate Disturbed Area	11.52	ac	\$1,100	\$12,676
<u>Temporary Stockpile Areas (Surface only in Phase 16)</u>				
Scarifying Ground in Disturbed Area	11.43	ac	\$322	\$3,675
Topsoil Placement in Disturbed Area	11.43	ac	\$2,541	\$29,044
Revegetate Disturbed Area	11.43	ac	\$1,100	\$12,577
<u>Temporary Stockpile Areas (Surface only in Phase 17)</u>				
Scarifying Ground in Disturbed Area	11.13	ac	\$322	\$3,579
Topsoil Placement in Disturbed Area	11.13	ac	\$2,541	\$28,282
Revegetate Disturbed Area	11.13	ac	\$1,100	\$12,247
<u>Temporary Stockpile Areas (Surface only in Phase 18)</u>				
Scarifying Ground in Disturbed Area	11.52	ac	\$322	\$3,704
Topsoil Placement in Disturbed Area	11.52	ac	\$2,541	\$29,273
Revegetate Disturbed Area	11.52	ac	\$1,100	\$12,676
<u>Mobilization</u>	1.00	ls	\$13,592	\$13,592
			Total Direct Cost	\$770,075
			Overhead and Profit Cost (13.07%)	\$100,649
			Contract Cost	\$870,724
			Project Management (7.00%)	\$53,905
Total Required Financial Warranty For Phase 1A				\$924,630



Phase 1 (9.25 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Placement in Disturbed Area Phase 1 (from PH 1A)	(9.25)	ac	\$2,541	-\$23,505
Credit for Revegetate Disturbed Area Phase 1 (from PH 1A)	(9.25)	ac	\$1,100	-\$10,178
Topsoil Area Above Water Required for Phase 1	2.44	ac	\$2,541	\$6,200
Revegetate Area Above Water Required for Phase 1	2.44	ac	\$1,100	\$2,685
Mobilization	1.00	ls	\$13,592	\$13,592
Total Direct Cost				-\$11,206
Overhead and Profit Cost (13.07%)				-\$1,465
Contract Cost				-\$12,671
Project Management (7.00%)				-\$784
Additional Financial Warranty Required For Phase 1				-\$13,455

Phase 2 (9.11 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phase 1	(2.44)	ac	\$2,541	-\$6,200
Credit for Revegetated Area Above Water Required for Phase 1	(2.44)	ac	\$1,100	-\$2,685
Credit for Topsoil Placement in Disturbed Area Phase 2 (from PH 1A)	(9.11)	ac	\$2,541	-\$23,149
Credit for Revegetate Disturbed Area Phase 2 (from PH 1A)	(9.11)	ac	\$1,100	-\$10,024
Topsoil Area Above Water Required for Phases 1-2	3.99	ac	\$2,541	\$10,150
Revegetate Area Above Water Required for Phases 1-2	3.99	ac	\$1,100	\$4,395
Total Direct Cost				-\$27,512
Overhead and Profit Cost (13.07%)				-\$3,596
Contract Cost				-\$31,108
Project Management (7.00%)				-\$1,926
Additional Financial Warranty Required For Phase 2				-\$33,033

Phase 3 (9.81 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-2	(3.99)	ac	\$2,541	-\$10,150
Credit for Revegetated Area Above Water Required for Phases 1-2	(3.99)	ac	\$1,100	-\$4,395
Credit for Topsoil Placement in Disturbed Area Phase 3 (from PH 1A)	(9.81)	ac	\$2,541	-\$24,928
Credit for Revegetate Disturbed Area Phase 3 (from PH 1A)	(9.81)	ac	\$1,100	-\$10,794
Topsoil Area Above Water Required for Phases 1-3	4.91	ac	\$2,541	\$12,469
Revegetate Area Above Water Required for Phases 1-3	4.91	ac	\$1,100	\$5,400
Total Direct Cost				-\$32,398
Overhead and Profit Cost (13.07%)				-\$4,234
Contract Cost				-\$36,632
Project Management (7.00%)				-\$2,268
Additional Financial Warranty Required For Phase 3				-\$38,900



Phase 4 (9.60 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-3	(4.91)	ac	\$2,541	-\$12,469
Credit for Revegetated Area Above Water Required for Phases 1-3	(4.91)	ac	\$1,100	-\$5,400
Credit for Topsoil Placement in Disturbed Area Phase 4 (from PH 1A)	(9.60)	ac	\$2,541	-\$24,394
Credit for Revegetate Disturbed Area Phase 4 (from PH 1A)	(9.60)	ac	\$1,100	-\$10,563
Topsoil Area Above Water Required for Phases 1-4	5.01	ac	\$2,541	\$12,726
Revegetate Area Above Water Required for Phases 1-4	5.01	ac	\$1,100	\$5,511
			Total Direct Cost	-\$34,589
			Overhead and Profit Cost (13.07%)	-\$4,521
			Contract Cost	-\$39,110
			Project Management (7.00%)	-\$2,421
Additional Financial Warranty Required For Phase 4				-\$41,531

Phase 5 (9.09 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-4	(5.01)	ac	\$2,541	-\$12,726
Credit for Revegetated Area Above Water Required for Phases 1-4	(5.01)	ac	\$1,100	-\$5,511
20% Cost of Slurry Wall Required to Close Phases 5-18 (45' avg Depth)	11,206	lf	\$27	\$302,562
Topsoil Area Above Water Required for Phases 1-5	6.46	ac	\$2,541	\$16,411
Revegetate Area Above Water Required for Phases 1-5	6.46	ac	\$1,100	\$7,106
			Total Direct Cost	\$307,842
			Overhead and Profit Cost (13.07%)	\$40,235
			Contract Cost	\$348,077
			Project Management (7.00%)	\$21,549
Additional Financial Warranty Required For Phase 5				\$369,626

Phase 6 (9.51 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-5	(6.46)	ac	\$2,541	-\$16,411
Credit for Revegetated Area Above Water Required for Phases 1-5	(6.46)	ac	\$1,100	-\$7,106
Topsoil Area Above Water Required for Phases 1-6	6.45	ac	\$2,541	\$16,392
Revegetate Area Above Water Required for Phases 1-6	6.45	ac	\$1,100	\$7,098
			Total Direct Cost	-\$27
			Overhead and Profit Cost (13.07%)	-\$3
			Contract Cost	-\$30
			Project Management (7.00%)	-\$2
Additional Financial Warranty Required For Phase 6				-\$32



Phase 7 (9.35 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-6	(6.45)	ac	\$2,541	-\$16,392
Credit for Revegetated Area Above Water Required for Phases 1-6	(6.45)	ac	\$1,100	-\$7,098
Topsoil Area Above Water Required for Phases 1-7	7.35	ac	\$2,541	\$18,667
Revegetate Area Above Water Required for Phases 1-7	7.35	ac	\$1,100	\$8,083
Total Direct Cost				\$3,260
Overhead and Profit Cost (13.07%)				\$426
Contract Cost				\$3,686
Project Management (7.00%)				\$228
Additional Financial Warranty Required For Phase 7				\$3,914

Phase 8 (9.50 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-7	(7.35)	ac	\$2,541	-\$18,667
Credit for Revegetated Area Above Water Required for Phases 1-7	(7.35)	ac	\$1,100	-\$8,083
Topsoil Area Above Water Required for Phases 1-8	7.35	ac	\$2,541	\$18,667
Revegetate Area Above Water Required for Phases 1-8	7.35	ac	\$1,100	\$8,083
Total Direct Cost				\$0
Overhead and Profit Cost (13.07%)				\$0
Contract Cost				\$0
Project Management (7.00%)				\$0
Additional Financial Warranty Required For Phase 8				\$0

Phase 9 (9.48 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-8	(7.35)	ac	\$2,541	-\$18,667
Credit for Revegetated Area Above Water Required for Phases 1-8	(7.35)	ac	\$1,100	-\$8,083
Topsoil Area Above Water Required for Phases 1-9	7.26	ac	\$2,541	\$18,457
Revegetate Area Above Water Required for Phases 1-9	7.26	ac	\$1,100	\$7,992
Total Direct Cost				-\$301
Overhead and Profit Cost (13.07%)				-\$39
Contract Cost				-\$340
Project Management (7.00%)				-\$21
Additional Financial Warranty Required For Phase 9				-\$361



Phase 10 (9.36 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-9	(7.26)	ac	\$2,541	-\$18,457
Credit for Revegetated Area Above Water Required for Phases 1-9	(7.26)	ac	\$1,100	-\$7,992
Topsoil Area Above Water Required for Phases 1-10	8.16	ac	\$2,541	\$20,741
Revegetate Area Above Water Required for Phases 1-10	8.16	ac	\$1,100	\$8,981
Total Direct Cost				\$3,274
Overhead and Profit Cost (13.07%)				\$428
Contract Cost				\$3,701
Project Management (7.00%)				\$229

Additional Financial Warranty Required For Phase 10 **\$3,931**

Phase 11 (9.75 acres)

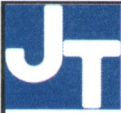
Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-10	(8.16)	ac	\$2,541	-\$20,741
Credit for Revegetated Area Above Water Required for Phases 1-10	(8.16)	ac	\$1,100	-\$8,981
Topsoil Area Above Water Required for Phases 1-11	8.17	ac	\$2,541	\$20,767
Revegetate Area Above Water Required for Phases 1-11	8.17	ac	\$1,100	\$8,993
Total Direct Cost				\$37
Overhead and Profit Cost (13.07%)				\$5
Contract Cost				\$42
Project Management (7.00%)				\$3

Additional Financial Warranty Required For Phase 11 **\$44**

Phase 12 (12.68 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-11	(8.17)	ac	\$2,541	-\$20,767
Credit for Revegetated Area Above Water Required for Phases 1-11	(8.17)	ac	\$1,100	-\$8,993
Topsoil Area Above Water Required for Phases 1-12	8.53	ac	\$2,541	\$21,663
Revegetate Area Above Water Required for Phases 1-12	8.53	ac	\$1,100	\$9,381
Total Direct Cost				\$1,284
Overhead and Profit Cost (13.07%)				\$168
Contract Cost				\$1,452
Project Management (7.00%)				\$90

Additional Financial Warranty Required For Phase 12 **\$1,542**



Phase 13 (11.61 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 1-12	(8.53)	ac	\$2,541	-\$21,663
Credit for Revegetated Area Above Water Required for Phases 1-12	(8.53)	ac	\$1,100	-\$9,381
Credit for Scarifying Ground in Disturbed Area Phase 13 (from PH 1A)	(11.61)	ac	\$322	-\$3,733
Credit for Topsoil Placement in Disturbed Area Phase 13 (from PH 1A)	(11.61)	ac	\$2,541	-\$29,501
Credit for Revegetate Disturbed Area Phase 13 (from PH 1A)	(11.61)	ac	\$1,100	-\$12,775
Topsoil Area Above Water Required for Phases 1-13	10.13	ac	\$2,541	\$25,730
Revegetate Area Above Water Required for Phases 1-13	10.13	ac	\$1,100	\$11,142
Total Direct Cost				-\$40,181
Overhead and Profit Cost (13.07%)				-\$5,252
Contract Cost				-\$45,433
Project Management (7.00%)				-\$2,813

Additional Financial Warranty Required For Phase 13 **-\$48,245**

Phase 14 (11.56 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Scarifying Ground in Disturbed Area Phase 14 (from PH 1A)	(11.56)	ac	\$322	-\$3,717
Credit for Topsoil Placement in Disturbed Area Phase 14 (from PH 1A)	(11.56)	ac	\$2,541	-\$29,374
Credit for Revegetate Disturbed Area Phase 14 (from PH 1A)	(11.56)	ac	\$1,100	-\$12,720
Topsoil Area Above Water Required for Phase 14	2.66	ac	\$2,541	\$6,755
Revegetate Area Above Water Required for Phase 14	2.66	ac	\$1,100	\$2,925
Total Direct Cost				-\$36,131
Overhead and Profit Cost (13.07%)				-\$4,722
Contract Cost				-\$40,853
Project Management (7.00%)				-\$2,529

Additional Financial Warranty Required For Phase 14 **-\$43,382**

Phase 15 (11.52 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phase 14	(2.66)	ac	\$2,541	-\$6,755
Credit for Revegetated Area Above Water Required for Phase 14	(2.66)	ac	\$1,100	-\$2,925
Credit for Scarifying Ground in Disturbed Area Phase 15 (from PH 1A)	(11.52)	ac	\$322	-\$3,704
Credit for Topsoil Placement in Disturbed Area Phase 15 (from PH 1A)	(11.52)	ac	\$2,541	-\$29,273
Credit for Revegetate Disturbed Area Phase 15 (from PH 1A)	(11.52)	ac	\$1,100	-\$12,676
Topsoil Area Above Water Required for Phases 14-15	4.24	ac	\$2,541	\$10,775
Revegetate Area Above Water Required for Phases 14-15	4.24	ac	\$1,100	\$4,666
Total Direct Cost				-\$39,891
Overhead and Profit Cost (13.07%)				-\$5,214
Contract Cost				-\$45,105
Project Management (7.00%)				-\$2,792

Additional Financial Warranty Required For Phase 15 **-\$47,898**



Phase 16 (11.43 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 14-15	(4.24)	ac	\$2,541	-\$10,775
Credit for Revegetated Area Above Water Required for Phases 14-15	(4.24)	ac	\$1,100	-\$4,666
Credit for Scarifying Ground in Disturbed Area Phase 16 (from PH 1A)	(11.43)	ac	\$322	-\$3,675
Credit for Topsoil Placement in Disturbed Area Phase 16 (from PH 1A)	(11.43)	ac	\$2,541	-\$29,044
Credit for Revegetate Disturbed Area Phase 16 (from PH 1A)	(11.43)	ac	\$1,100	-\$12,577
Topsoil Area Above Water Required for Phases 14-16	5.30	ac	\$2,541	\$13,463
Revegetate Area Above Water Required for Phases 14-16	5.30	ac	\$1,100	\$5,830
Total Direct Cost				-\$41,444
Overhead and Profit Cost (13.07%)				-\$5,417
Contract Cost				-\$46,861
Project Management (7.00%)				-\$2,901

Additional Financial Warranty Required For Phase 16 **-\$49,762**

Phase 17 (11.13 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 14-16	(5.30)	ac	\$2,541	-\$13,463
Credit for Revegetated Area Above Water Required for Phases 14-16	(5.30)	ac	\$1,100	-\$5,830
Credit for Scarifying Ground in Disturbed Area Phase 17 (from PH 1A)	(11.13)	ac	\$322	-\$3,579
Credit for Topsoil Placement in Disturbed Area Phase 17 (from PH 1A)	(11.13)	ac	\$2,541	-\$28,282
Credit for Revegetate Disturbed Area Phase 17 (from PH 1A)	(11.13)	ac	\$1,100	-\$12,247
Topsoil Area Above Water Required for Phases 14-17	5.22	ac	\$2,541	\$13,270
Revegetate Area Above Water Required for Phases 14-17	5.22	ac	\$1,100	\$5,746
Total Direct Cost				-\$44,385
Overhead and Profit Cost (13.07%)				-\$5,801
Contract Cost				-\$50,186
Project Management (7.00%)				-\$3,107

Additional Financial Warranty Required For Phase 17 **-\$53,293**

Phase 18 (11.52 acres)

Reclamation Operation	Quantity	Unit	Unit Cost	Cost
Active Mining Area				
Credit for Topsoil Area Above Water Required for Phases 14-17	(5.22)	ac	\$2,541	-\$13,270
Credit for Revegetated Area Above Water Required for Phases 14-17	(5.22)	ac	\$1,100	-\$5,746
Credit for Scarifying Ground in Disturbed Area Phase 18 (from PH 1A)	(11.52)	ac	\$322	-\$3,704
Credit for Topsoil Placement in Disturbed Area Phase 17 (from PH 1A)	(11.52)	ac	\$2,541	-\$29,273
Credit for Revegetate Disturbed Area Phase 18 (from PH 1A)	(11.52)	ac	\$1,100	-\$12,676
Topsoil Area Above Water Required for Phase 14-18	6.72	ac	\$2,541	\$17,078
Revegetate Area Above Water Required for Phase 14-18	6.72	ac	\$1,100	\$7,395
Total Direct Cost				-\$40,196
Overhead and Profit Cost (13.07%)				-\$5,254
Contract Cost				-\$45,449
Project Management (7.00%)				-\$2,814

Additional Financial Warranty Required For Phase 18 **-\$48,263**

Total Financial Warranty Required For All Phases **\$885,530**

Division of Reclamation, Mining, and Safety

Fee Receipt for M2008078

GP Aggregates, LLC

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Receipt #: 18869

Date: 01/23/2015

Permit: M2008078

Payment Method	Revenue Code	Fee Description/Notes	Amount
4511 msr	4300-MTR0	Minerals Technical Revision M2008-078 paid by J&T Consulting, Inc.	\$216.00
Receipt Total:			\$216.00