

Revision



P E R M I T



R E V I S I O N

QATESTOCR

MEMORANDUM

✓ TO: DRMS, Bestway Concrete, Project File
✓ FROM: Civil Resources, LLC
✓ DATE: November 6, 2014
RE: DRMS TR-2 Review Comments 2 via email October 29, 2014

1) With respect to TR2, the backfill quantity estimates are good, but the Division will need more detailed bonding information regarding the proposed reclamation options for the Burch property (full backfill to 2 feet above groundwater vs. lined pond for west area). We will also need the location of overburden/topsoil staging area(s)/quantities, haul routes/distances, proposed compacted liner design - at least at conceptual level, and bond estimate for liner option on western area. DRMS will need to bond for the more expensive of the provided options (likely backfill) until Bestway is ready to commit to one plan over the other.

See attached figures showing the updated: 1) mining plan; 2) west stock pile plan; 3) east stockpile plan; 4) haul plan and 5) reclamation plan. Bestway has submitted a bond for backfilling but has committed to lining the west phase as shown on the updated reclamation plan. The cost differential is approximately 30,000 dollars between backfilling and lining the west phase. Bestway has already acquired and submitted the bond for the backfill of both phases options.

The backfill plan notes show there is adequate onsite stockpile storage. Once the east phase is mined all the stockpiled material on the west phase will be pushed back into the east phase hole. The material from the north can be stockpiled around the perimeter of the north phase with additional storage on the west phase perimeter or the north phase perimeter.

Bestway will reclaim the east phase to two feet above groundwater level and reseed the area. The north phase will get seeded and the west phase will be reclaimed with a compacted clay liner (CCL). The overburden material will be used requiring approximately 34,000 cubic yards of clayey sand (CL) to sandy clay (SC) material. The CCL will be built:

- In 8-inch lifts at 4 horizontal to 1 vertical side slopes and keyed 2.5 feet into bedrock.
- The CCL will be compacted to 95% maximum dry density and 2% +/- optimum water content.
- The overburden material will be required to have a percent passing the minus 200 sieve of 20% and a plasticity index greater than or equal to 10.

The preliminary bore logs from 2004 indicate the material should be sufficient to meet the above specification. It should be noted that the bedrock surrounding the site is adequate for water storage as there are multiple slurry lined pond onsite. This a preliminary minimum requirement of the CCL and more refined engineering and geotechnical investigation will be required prior to starting construction. Once the lined storage is complete the water storage vessel will be 90- day leak tested per the State lined criteria

2) DRMS will also need the letter of commitment from Bestway that they will maintain sufficient backfill on-site to backfill the current excavation within the Burch parcel at any time to a level at least 2 ft above groundwater, and sufficient topsoil to replace over the backfill area(s) to a minimum depth of 3". This will become an enforceable condition of the permit.

See attached commitment letter.

The Shores-Burch Property - Table for Reclamation/Bonding Cost Estimate -Backfill

M-1998-013

Activity	Quantity	Units	Unit Costs	Cost
A. Other Costs				
1 Scarify ground	48.00	AC	\$ 150.00	\$ 7,200.00
2 Final grade and place 6" topsoil over remainder of disturbed area	38,712	CY	\$ 2.00	\$ 77,424.00
3 Seed and mulch remainder of disturbed area	48.00	AC	\$ 550.00	\$ 26,400.00
4 Backfill (2' above groundwater level (~8' below grade)	430,922	CY	\$ 0.50	\$ 215,461.00
Subtotal				\$ 326,485.00
B. Other Costs				
1 Ditch Cleanup	1.00	LS	\$ 10,000.00	\$ 10,000.00
2 Road Cleanup	1	LS	\$ 2,500.00	\$ 2,500.00
Subtotal				\$ 12,500.00
Total Disturbance Costs				\$ 338,985.00
Liability Insurance and Performance Bond (3.07%) - Based on DMG estimate				\$ 10,406.84
Contractor Overhead and Profit (10%) - Based on DMG estimate				\$ 33,898.50
Contractor Mobilization/Demobilization (5%)				\$ 16,949.25
Engineering Work and/or contract/bid preparation (4.25%)				\$ 14,406.86
Administration (5%) - Based on DRMS estimate				\$ 16,949.25
Total				\$ 431,595.70

Bestway Concrete Aggregate

The Shores-Burch Property - Table for Reclamation/Bonding Cost Estimate -clay liner

M-1998-013

Activity	Quantity	Units	Unit Costs	Cost
A. Other Costs				
1 Scarify ground	48.00	AC	\$ 150.00	\$ 7,200.00
2 Final grade and place 6" topsoil over remainder of disturbed area	38,712	CY	\$ 2.00	\$ 77,424.00
3 Seed and mulch remainder of disturbed area	48.00	AC	\$ 550.00	\$ 26,400.00
4 clay liner	34,000	CY	\$ 3.25	\$ 110,500.00
5 Backfill (2' above GW level)	218,716	CY	\$ 0.50	\$ 109,358.00
6 Additonal hauled Fines Backfill (2' above GW level)	30,000	CY	\$ 0.75	\$ 22,500.00
Subtotal				\$ 353,382.00
B. Other Costs				
1 Ditch Cleanup	1.00	LS	\$ 10,000.00	\$ 10,000.00
2 Road Cleanup	1	LS	\$ 2,500.00	\$ 2,500.00
Subtotal				\$ 12,500.00
Total Disturbance Costs				\$ 365,882.00
Liability Insurance and Performance Bond (3.07%) - Based on DMG estimate				\$ 11,232.58
Contractor Overhead and Profit (10%) - Based on DMG estimate				\$ 36,588.20
Contractor Mobilization/Demobilization (5%)				\$ 18,294.10
Engineering Work and/or contract/bid preparation (4.25%)				\$ 15,549.99
Administration (5%) - Based on DRMS estimate				\$ 18,294.10
Total				\$ 465,840.96

Bestway Concrete Aggregate

RICHARD & MARGARET VOGL
ACCT #: R4786386
PARCEL #: 120736000051

RICHARD & MARGARET VOGL
ACCT #: R4786386
PARCEL #: 120736000052

PELICAN SHORES S HOMEOWNERS ASSOCIATION
ACCT #: R3386805
PARCEL #: 120736401028

LINDA J. JAMISON
ACCT #: R0068688
PARCEL #: 131301000047

MINING STOCKPILE
(6' BERM) APPROXIMATELY
30,000 CY OF MATERIAL
STORAGE AVAILABLE

POTENTIAL LAST CHANCE DITCH
RELOCATION EASEMENT

MINING STOCKPILE
APPROXIMATELY
15,000 CY
OF MATERIAL STORAGE
AVAILABLE
(6' BERM)

TOM & JERRILYN LOUISE STINAR
ACCT #: R5575086
PARCEL #: 131301000016

MINING STOCKPILE
APPROXIMATELY
105,000 CY
OF MATERIAL STORAGE
AVAILABLE

MINING STOCKPILE
PLACED IN DIRECTION
OF FLOW APPROXIMATELY
20' FEET HIGH
AT 2:1 SIDE SLOPES

APPROXIMATE LOCATION OF
EXIST. KERR-MCGEE
PRODUCTION FACILITY AND WELL

SHAWN & JENNY LEE
ACCT #: R7405398
PARCEL #: 131301200053

PROPERTY LINE

GRAVEL

PAVEMENT

WELD CO. ROAD 26

50' OFFSET FROM
DITCH EASEMENT.

EX. LAST CHANCE
IRRIGATION DITCH

75'

150'

KERR-
MCGEE
BURCH
3-1A

TEMPORARY
CROSSING

DEWATERING
LINE

HAUL
ROUTE

TEMPORARY
CROSSING

MINING
LIMITS

20.00'

POTENTIAL RURAL DITCH RETURN

65'

MINING LIMIT
FROM FUTURE DITCH

120'

FUTURE DRAINAGEWAY
BY TOWN OF FIRESTONE

3H:1V

WEST PHASE
14AC +/-

3H:1V

EX. LOCATION
RURAL DITCH
RETURN

EAST
PHASE
8.7AC +/-

30'

TEMPORARY
CROSSING

MINING LIMIT

50'

FARM
STRUCTURE

EX. RURAL DITCH

STOCKPILE NOTES:
1) EAST CELL GENERATES 104,000 CY OF OVERBURDEN
2) WEST CELL GENERATES 135,040 CY OF OVERBURDEN
3) WEST CELL GENERATES 135,040 CY OF OVERBURDEN
4) APPROXIMATELY 30,000 CY OF OVERBURDEN WILL BE PLACED IN
THE EAST CELL WHILE THE MINER IS MINING THE WEST CELL. THE
EAST CELL WILL BE USED TO STORE MATERIAL TO BE BACKFILLED
5) ABOVE GROUNDWATER LEVEL
6) THE WEST CELL WILL BE MINED IN TWO PHASES AND MATERIAL CAN BE
STOCKPILED ON THE NORTHERN PORTION OF THE WEST CELL WHICH
WILL BE USED TO BACKFILL THE WEST CELL. THE MATERIAL WILL MORE THAN
LARGELY COMPENSATE FOR THE MATERIAL TO BE STOCKPILED IN THE
EAST CELL. THE MINER IS GOING TO RECLAIM THE WEST CELL AS A LINED WATER
STORAGE VESSEL.
7) THE WEST CELL LINING REQUIRES 34,000 CY (3300LF OF SLOPE LINER) OF MATERIAL
8) APPROXIMATELY 30,000 CUBIC YARD (CY) OF MATERIAL WILL BE REQUIRED TO COMPLETE
BACKFILLING THE EAST CELL & THE MATERIAL WILL COME FROM THE SOUTH STOCKPILE AREA
APPROXIMATELY 3000 FEET TO THE SOUTH. SEE SHEET 4 HAIL PLAN.
9) THE MINER WILL PROVIDE SUFFICIENT MATERIAL STOCKPILE STORAGE AND MATERIAL
ON SITE TO RECLAIM THE SITE.



SHEET INFORMATION		PROJECT INFORMATION				
NO.	DESCRIPTION	DATE	BY			
1	THE STOCKPILE RELOCATION	11/11/16	JL			
CIVIL RESOURCES, LLC						
DESIGNED BY:	JL	CHECKED BY:	JL			
DRAWN BY:	JL	SCALE:	AS NOTED			
DATE:	11/11/16	PROJECT NO.:	131301200053			
PROJECT NAME:	BISTWAY CONCRETE & AGGREGATES					
THE SHORES-BURCH PROPERTY						
FIRESTONE, COLORADO						
WEST STOCKPILE AREA						
SHEET 2						

RICHARD & MARGARET VOGL
ACCT #: R4786386
PARCEL #: 120736000051

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ACCT #: R4786586
PARCEL #: 120736000052

PELICAN SHORES S HOMEOWNERS ASSOCIATION
ACCT #: R3386805
PARCEL #: 120736401028

LINDA J. JAMISON
ACCT #: R0068688
PARCEL #: 131301000047

MINING STOCKPILE
(6' BERM) APPROXIMATELY
30,000 CY OF MATERIAL
STORAGE AVAILABLE

POTENTIAL LAST CHANCE DITCH
RELOCATION EASEMENT

MINING STOCKPILE
APPROXIMATELY
15,000 CY
OF MATERIAL STORAGE
AVAILABLE
(6' BERM)

TOM & JERRILYN LOUISE STINAR
ACCT #: R5575086
PARCEL #: 131301000016

SHAWN & JENNY LEE
ACCT #: R7405398
PARCEL #: 131301200053

GRAVEL PAVEMENT

WELD CO. ROAD 26

PROPERTY LINE






























































































































































































































































































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LINDA J. JAMISON
ACCT #: R0068688
PARCEL #: 131301000047

LINDA J. JAMISON
ACCT #: R0068688
PARCEL #: 1313010

STOCKPILE NOTES:

1) EAST CELL GENERATES 104,000 CY OF OVERBURDEN TO BE PLACED ON WEST CELL. WEST CELL HAS AVAILABLE (2) WEST CELL GENERATES 135,040 CY OF OVERBURDEN TO BE PLACED IN EAST CELL. WEST CELL GENERATES 218,716 CY OF MATERIAL TO BE BACKFILLED ABOVE GROUNDWATER LEVEL.

2) THE WEST CELL WILL BE MINED IN TWO PHASES AND MATERIAL CAN BE STOCKPILED IN THE EAST CELL. THE STOCKPILE OF MATERIAL WHICH IS STOCKPILED IN THE EAST CELL WILL BE USED TO RECLAIM THE WEST CELL. APPROXIMATELY 50% OF STOCKPILE OF MATERIAL WILL MORE THAN LIKELY GO DIRECTLY INTO THE EAST CELL AS STATED IN LINE 2.

3) THE MINER IS GOING TO RECLAIM THE WEST CELL USING A LOOSE STORAGE VESSEL.

4) THE MINING REQUIRES 34,000 CY (3300' OF SLOPE LINEN) OF MATERIAL AND WILL COME FROM THE OVERBURDEN MATERIAL.

5) APPROXIMATELY 30,000 CUBIC YARD (CY) OF MATERIAL WILL BE REQUIRED TO COMPLETE BACKFILLING THE EAST CELL. THE MATERIAL WILL COME FROM THE SOUTH STOCKPILE AREA.

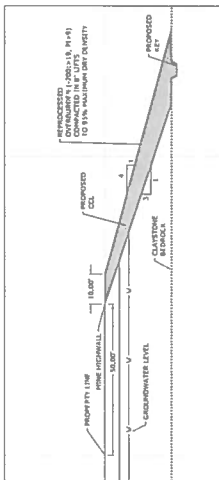
6) IN SUMMARY THERE IS ADEQUATE MATERIAL STOCKPILE STORAGE AND MATERIAL AVAILABILITY TO RECLAIM THE SITE.

TOM & JERRILYN LOUISE STINAR
ACCT #: R5575086
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SHAWN & JENNY LEE
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PARCEL #: 131301200053



North



0 100

SCALE:
1" = 100'

DRAWN BY: 11404113		REVISION		DATE	
DESCRIPTION		BY		DATE	
1. 11404113		11404113		11/11/13	
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PARCEL #: 120736401028

PAVEMENT
RAVEL
WELD CO. RD D 26

PROPERTY LINE

MINING STOCKPILE
(6' BERM) APPROXIMATELY
30,000 CY OF MATERIAL
STORAGE AVAILABLE

POTENTIAL LAST CHANCE DITCH
RELOCATION EASEMENT

MINING STOCKPILE
APPROXIMATELY
15,000 CY
OF MATERIAL STORAGE
AVAILABLE
(6' BERM)

TOM & JERRILYN LOUISE STINAR
ACCT #: R5575086
PARCEL #: 131301000016

50' PROPERTY
LINE SETBACK

MINING
LIMITS

WELD CO. ROAD 11-25

WEST PHASE
14AC +/-

EX. LOCATION
RURAL DITCH
RETURN

EAST
PHASE
8.7AC +/-

MINING LIMIT

65'
MINING LIMIT
FROM FUTURE DITCH

20.00'
POTENTIAL RURAL DITCH RETURN

30'

120'
FUTURE DRAINAGEWAY
BY TOWN OF FIRESTONE

3H:1V

50'

MINING LIMIT

FARM
STRUCTURE

APPROXIMATE LOCATION OF
EXIST. KERR-MCGEE
FARM DRAINAGE EASEMENT AND
WELL

SHAWN & JENNY LEE
ACCT #: R7405398
PARCEL #: 131312000053

TEMPORARY
CROSSING

75'

150'

EX. LAST CHANCE
IRRIGATION DITCH

DEWATERING
LINE

HAUL
ROUTE

TEMPORARY
CROSSING

50' OFFSET FROM
DITCH EASEMENT

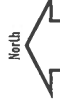
MINING LIMIT

RAVEL

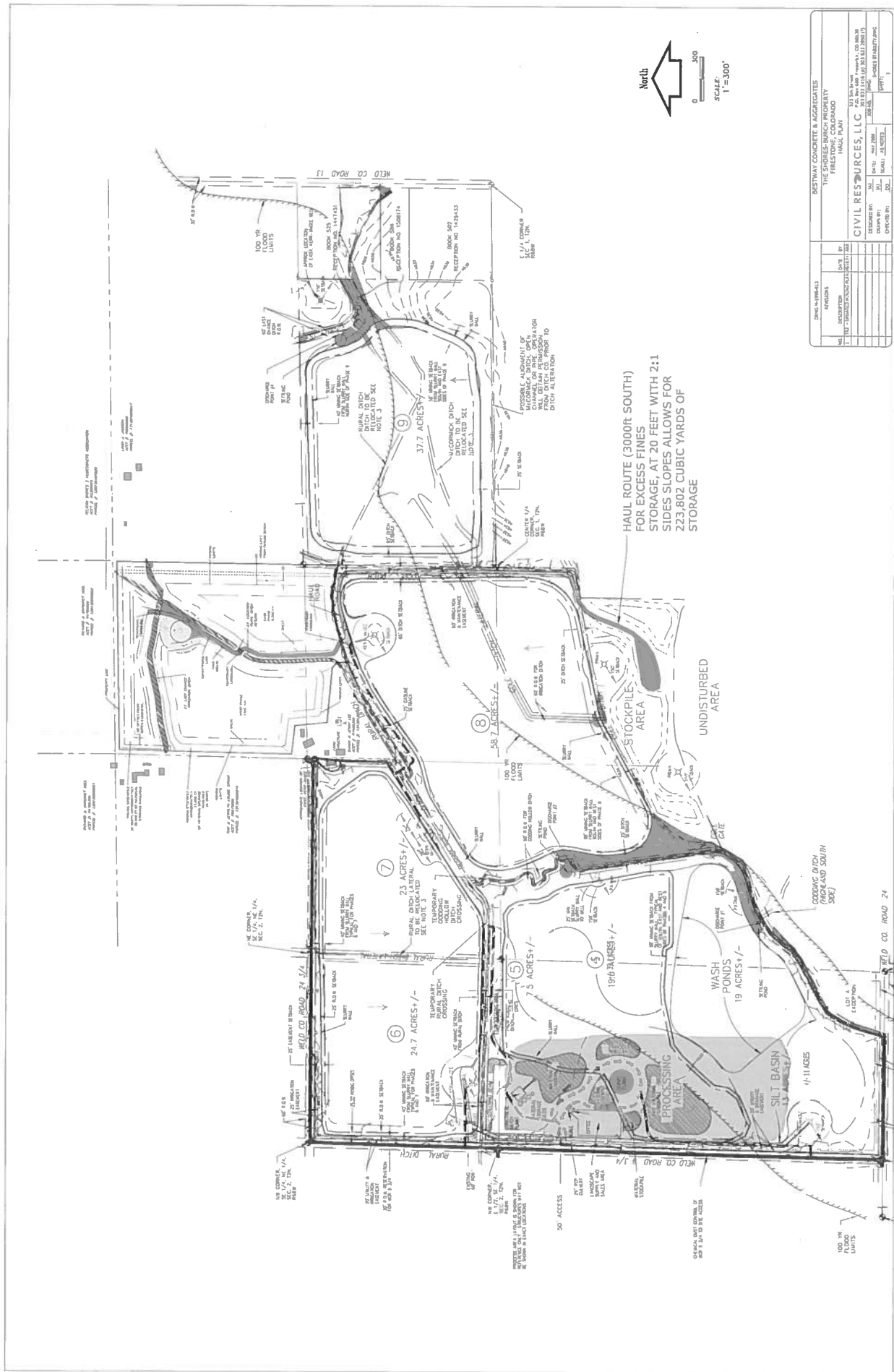
PAVEMENT

STOCKPILE NOTES:

- 1) EAST CELL GENERATES 104,000 CY OF OVERBURDEN TO BE PLACED ON WEST CELL. WEST CELL HAS AVAILABLE STORAGE CAPACITY FOR 104,000 CY OF OVERBURDEN.
- 2) WEST CELL GENERATES 135,000 CY OF OVERBURDEN TO BE PLACED IN THE EAST CELL WHILE THE MINER IS MINING THE WEST CELL. THE EAST CELL REQUIRES 218,716 CY OF MATERIAL TO BE BACKFILLED.
- 3) THE OVERBURDEN WILL BE PLACED IN TWO PHASES AND MATERIAL CAN BE STOCKPILED ON THE NORTHERN PORTION OF THE WEST CELL WHICH IS APPROXIMATE 50,000 CY OF STORAGE. BUT THE MATERIAL WILL MORE THAN LIKELY GO DIRECTLY INTO THE EAST CELL AS STATED IN NOTE 2.
- 4) THE OVERBURDEN GOING TO RECLAIM THE WEST CELL AS A LINED WATER STORAGE VESSEL.
- 5) THE WEST CELL LINING REQUIRES 34,000 CY (3300LF OF SLOPE LINER) OF MATERIAL AND WILL COME FROM THE OVERBURDEN MATERIAL.
- 6) THE OVERBURDEN MATERIAL WILL BE REQUIRED TO COMPLETE BACKFILLING THE EAST CELL TO THE SOUTH. SEE SHEET 4 HAIL PLAN.
- 7) IN SUMMARY THERE IS ADEQUATE MATERIAL STOCKPILE STORAGE AND MATERIAL ON-SITE TO RECLAIM THE SITE.



DATE: 10/19/2011		BETTERWAY CONCRETE & AGGREGATES	
REVISION		THE SHORES-BURCH PROPERTY	
NO.		FIRESTONE, COLORADO	
BY		MINING PLAN	
DATE		CIVIL RESOURCES, LLC	
PROJECT		30.00 AC +/-	
DRAWN BY		JAL	
CHECKED BY		JAL	
DATE		10/19/2011	
PROJECT		30.00 AC +/-	
DRAWN BY		JAL	
CHECKED BY		JAL	
DATE		10/19/2011	
PROJECT		30.00 AC +/-	



BESTWAY CONCRETE & AGGREGATES		THE SHORES-BURCH PROPERTY	
FIRESTONE, COLORADO		HAUL PLAN	
NO.	DESCRIPTION	DATE	BY
1	HAUL PLAN	11/11/11	J. BURCH
2	HAUL PLAN	11/11/11	J. BURCH
3	HAUL PLAN	11/11/11	J. BURCH
4	HAUL PLAN	11/11/11	J. BURCH
5	HAUL PLAN	11/11/11	J. BURCH
6	HAUL PLAN	11/11/11	J. BURCH
7	HAUL PLAN	11/11/11	J. BURCH
8	HAUL PLAN	11/11/11	J. BURCH
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100	HAUL PLAN	11/11/11	J. BURCH

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 Email: info@civilresources.com
 Website: www.civilresources.com



November 6, 2014

Mr. Eric Scott, Reclamation Specialist
Division of Reclamation, Mining and Safety
1313 Sherman, Room 215
Denver, Colorado 80203

RE: Fill Requirement, File no. M-1998-013

Dear Mr. Scott:

Bestway Concrete and Aggregates will commit 500,000 cubic yards of backfill and reclamation material to the Shores gravel mine. The material will be in the form of overburden stockpiled on the Burch Site as shown on the updated mining and stockpile plans. An additional reserves stockpile of wash fines will be located in the south 10 acre parcel.

Bestway will survey the material stockpiles to, determine actual quantities, during and at the commencement of mining or as required by the DRMS.

Sincerely,

Mark Johnson
VP Aggregates

cc: Mark Johnson, Bestway Concrete and Aggregate Inc.

J:\Bestway-213\Firestone-Shores\shores-burch amendment\DRMS Amendment Burch Property\2013 application\DRMS\Technical Revisions\Letter to DRMS-fill onsite.doc

BESTWAY
CONCRETE & AGGREGATE