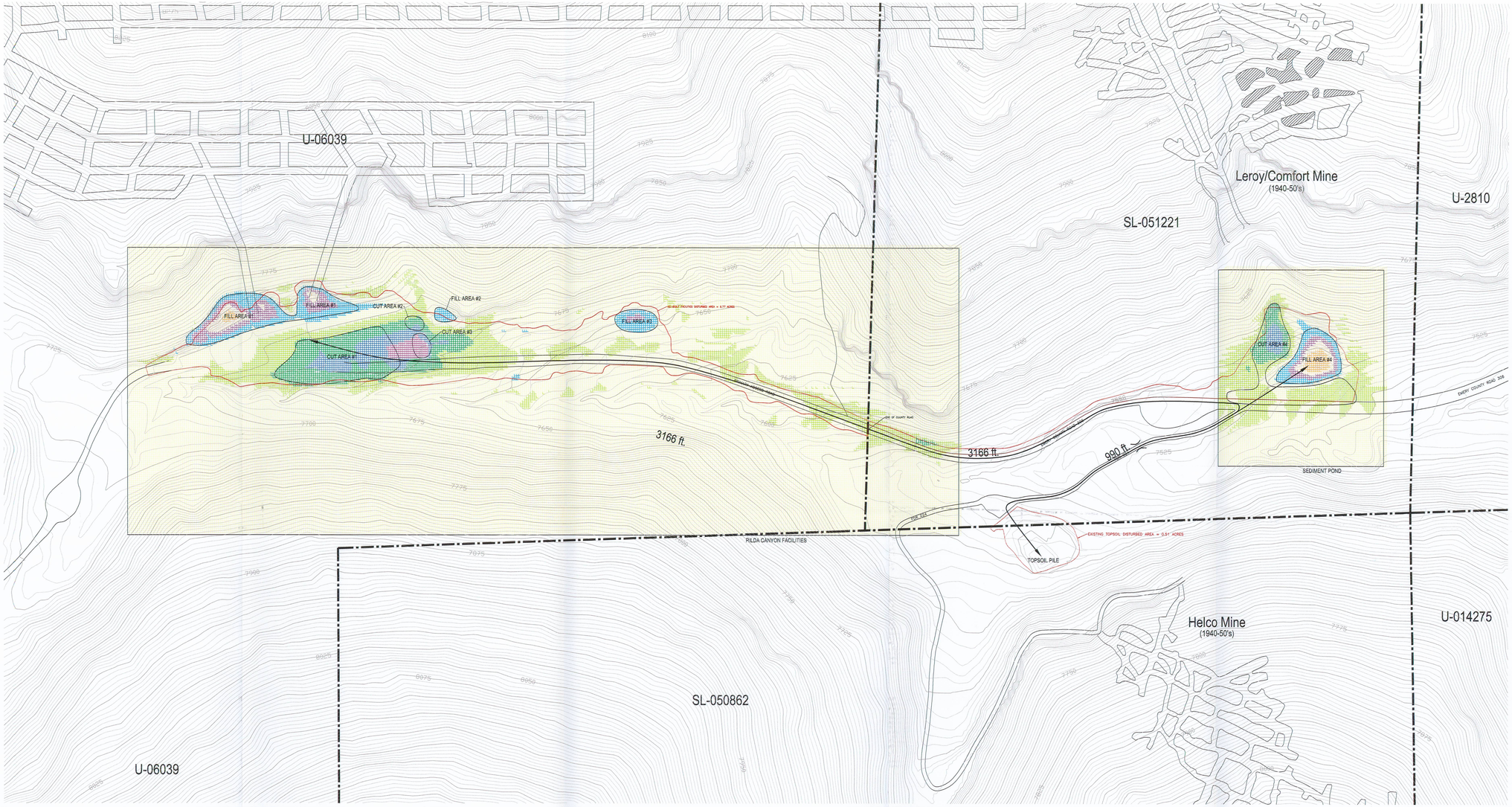

CUT AREA #4

Volume Report — Fri Feb 25 15:06:44 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO POND.grd
Reference elevation: 0.00
Grid corner locations: 2100200.51,389847.36 to 2100615.51,390342.36
Grid resolution X: 83, Y: 99 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 21,786.5 S.F., 0.50 Acres
Area in Fill: 3,274.1 S.F., 0.08 Acres
Total inclusion area: 25,060.6 S.F., 0.58 Acres
Cut to Fill ratio: 6.65
Average Cut Depth: 4.08 Average Fill Depth: 0.66
Max Cut Depth: 12.26 Max Fill Depth: 3.89
Cut (C.Y.) / Area (acres): 5728.46
Fill (C.Y.) / Area (acres): 139.82
Cut volume: 88,982.7 C.F., 3,295.66 C.Y.
Fill volume: 2,171.8 C.F., 80.44 C.Y.
Avg. Move of 110 ft.

FILL AREA #4

Volume Report — Fri Feb 25 15:07:39 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO POND.grd
Reference elevation: 0.00
Grid corner locations: 2100200.51,389847.36 to 2100615.51,390342.36
Grid resolution X: 83, Y: 99 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 0.0 S.F., 0.00 Acres
Area in Fill: 14,120.4 S.F., 0.32 Acres
Total inclusion area: 14,120.4 S.F., 0.32 Acres
Cut to Fill ratio: 0.00
Average Fill Depth: 13.53
Max Fill Depth: 25.53
Cut (C.Y.) / Area (acres): 0.00
Fill (C.Y.) / Area (acres): 21824.98
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 191,019.2 C.F., 7,074.79 C.Y.

CUT AREA #3

Volume Report — Thu Feb 17 10:32:23 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 2,269.5 S.F., 0.05 Acres
Area in Fill: 0.0 S.F., 0.00 Acres
Total inclusion area: 2,269.5 S.F., 0.05 Acres
Average Cut Depth: 16.23
Max Cut Depth: 20.63
Cut (C.Y.) / Area (acres): 26176.58
Fill (C.Y.) / Area (acres): 0.00
Cut volume: 36,823.5 C.F., 1,363.83 C.Y.
Fill volume: 0.0 C.F., 0.00 C.Y.
Avg. Move of 535 ft.

FILL AREA #3

Volume Report — Thu Feb 17 09:39:00 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 0.0 S.F., 0.00 Acres
Area in Fill: 4,878.9 S.F., 0.11 Acres
Total inclusion area: 4,878.9 S.F., 0.11 Acres
Cut to Fill ratio: 0.00
Average Fill Depth: 7.38
Max Fill Depth: 11.57
Cut (C.Y.) / Area (acres): 0.00
Fill (C.Y.) / Area (acres): 11909.43
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 36,015.5 C.F., 1,333.91 C.Y.

CUT AREA #2

Volume Report — Thu Feb 17 10:06:23 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 1,368.1 S.F., 0.03 Acres
Area in Fill: 0.0 S.F., 0.00 Acres
Total inclusion area: 1,368.1 S.F., 0.03 Acres
Average Cut Depth: 7.57
Max Cut Depth: 13.22
Cut (C.Y.) / Area (acres): 12215.80
Fill (C.Y.) / Area (acres): 0.00
Cut volume: 10,343.9 C.F., 383.11 C.Y.
Fill volume: 0.0 C.F., 0.00 C.Y.
Avg. Move of 75 ft.

FILL AREA #2

Volume Report — Thu Feb 17 09:52:55 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 0.0 S.F., 0.00 Acres
Area in Fill: 1,371.8 S.F., 0.03 Acres
Total inclusion area: 1,371.8 S.F., 0.03 Acres
Cut to Fill ratio: 0.00
Average Fill Depth: 6.21
Max Fill Depth: 8.13
Cut (C.Y.) / Area (acres): 0.00
Fill (C.Y.) / Area (acres): 1001.3.72
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 8,514.4 C.F., 315.35 C.Y.

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CUT AREA #1

Volume Report — Thu Feb 17 09:44:05 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 30,543.4 S.F., 0.70 Acres
Area in Fill: 0.0 S.F., 0.00 Acres
Total inclusion area: 30,543.4 S.F., 0.70 Acres
Average Cut Depth: 9.21
Max Cut Depth: 17.16
Cut (C.Y.) / Area (acres): 14858.60
Fill (C.Y.) / Area (acres): 0.00
Cut volume: 281,300.6 C.F., 10,418.54 C.Y.
Fill volume: 0.0 C.F., 0.00 C.Y.
Avg. Move of 285 ft.

FILL AREA #1

Volume Report — Thu Feb 17 09:33:00 2011
Comparing Grid: J:/Environmental/PERMITS/DeerCreekMine/Volume 11 North Rilda Portal Facilities/As-Built Drawings_work files/ZERO.grd
Reference elevation: 0.00
Grid corner locations: 2097505.59,389673.61 to 2099565.59,390393.61
Grid resolution X: 412, Y: 144 Grid cell size X: 5.00, Y: 5.00
Area in Cut : 0.0 S.F., 0.00 Acres
Area in Fill: 26,507.6 S.F., 0.61 Acres
Total inclusion area: 26,507.6 S.F., 0.61 Acres
Cut to Fill ratio: 0.00
Average Fill Depth: 10.99
Max Fill Depth: 23.00
Cut (C.Y.) / Area (acres): 0.00
Fill (C.Y.) / Area (acres): 17724.06
Cut volume: 0.0 C.F., 0.00 C.Y.
Fill volume: 291,376.7 C.F., 10,791.73 C.Y.

CERTIFIED PROFESSIONAL ENGINEER
1/24/12
No. 165863
STATE OF UTAH

500-6

CAD FILE NAME/DISK#: 500-6 AS-BUILT

Cut and Fill Color Legend

- 20' to 25' Cut
- 15' to 20' Cut
- 10' to 15' Cut
- 5' to 10' Cut
- 0' to 5' Cut
- 0 to 5' Fill
- 5' to 10' Fill
- 10' to 15' Fill
- 15' to 20' Fill
- 20' to 25' Fill
- 25' to 30' Fill

NOTE:
1. THE OBJECT OF THIS MAP IS TO SHOW WHERE MATERIAL WILL BE RELOCATED. CUT AND FILL VOLUMES DO NOT BALANCE. FOR DESIGNED CUT AND FILL VOLUMES, REFER TO TABLE 500-2 IN THE ENGINEERING SECTION.
2. THE AREAS SHADED IN THE YELLOW RECTANGLES WERE MODELED UTILIZING CARLSON SOFTWARE. CUT AND FILL AREAS MAY FALL OUTSIDE THE EXISTING DISTURBED BOUNDARY.
3. TOPSOIL PILE-2137 CY SHALL BE EVENLY SPREAD OVER SEDIMENT POND AREA. THE REMAINDER SHALL BE EVENLY SPREAD OVER REMAINING DISTURBED AREAS.

DATE	REVISION	BY	CHK
11/30/11	ADDED DISTURBED BOUNDARY AND NOTES AND REMOVED CROSS SECTIONS	K.L.	

ENERGY WEST MINING COMPANY
A SUBSIDIARY OF PACIFICORP

DEER CREEK MINE
RILDA CANYON
RECLAMATION MASS BALANCE

DRAWN BY: K. LARSEN
SCALE: 1"=100'
DRAWING #: 500-6
DATE: NOVEMBER 30, 2011
SHEET 1 OF 1
REV. 1

File in:
☐ Confidential
☐ Shelf
☒ Expandable
Date Folder: 20612-0150018