

# LANDFILL CLOSURE CAP PROJECT

## Petersburg, West Virginia

AS-BUILT

DIGITAL TERRAIN MODEL  
POLYGON FOR VOLUME  
FILL FROM LINER CAP  
TO FINAL GRADE



DIGITAL TERRAIN MODEL  
POLYGON FOR VOLUME  
FILL FROM ORIGINAL GRADE  
TO FINAL GRADE

### FILL FROM LINER CAP (rough grade) TO FINAL GRADE

Volume Report 11/05/2002  
 Comparing GRID file: C:/GEARY ASSOCIATES/...../ROUGH GRADE TOPD.grd  
 and GRID file: C:/GEARY ASSOCIATES/...../FINAL GRADE TOPD.grd  
 Grid corner locations: 2066674.31,173499.28 to 2068306.31,175212.28  
 Grid resolution X: 544, Y: 571 Grid cell size X: 3.00, Y: 3.00  
 Area in Cut : 18,197.5 S.F., 0.42 Acres  
 Area in Fill: 488,328.4 S.F., 11.21 Acres  
 Total inclusion area: 506,525.9 S.F., 11.63 Acres  
 Cut to Fill ratio: 0.09  
 Average Cut Depth: 4.77 Average Fill Depth: 2.05  
 Cut (C.Y.) / Area (acres): 276.67  
 Fill (C.Y.) / Area (acres): 3188.51  
 Cut volume: 86,862.7 C.F., 3,217.14 C.Y.  
 Fill volume: 1,001,070.58 C.F., 37,076.69 C.Y.

### FILL FROM ORIGINAL GRADE TO FINAL GRADE-South of landfill cap

Volume Report 11/05/2002  
 Comparing GRID file: C:/GEARY ASSOCIATES/...../LANDFILL ORIGINAL.grd  
 and GRID file: C:/GEARY ASSOCIATES/...../FINAL GRADE TOPD.grd  
 Grid corner locations: 2066674.31,173499.28 to 2068306.31,175212.28  
 Grid resolution X: 544, Y: 571 Grid cell size X: 3.00, Y: 3.00  
 Area in Cut : 44,227.4 S.F., 1.02 Acres  
 Area in Fill: 91,301.4 S.F., 2.10 Acres  
 Total inclusion area: 135,528.8 S.F., 3.11 Acres  
 Cut to Fill ratio: 0.15  
 Average Cut Depth: 0.30 Average Fill Depth: 0.99  
 Cut (C.Y.) / Area (acres): 158.37  
 Fill (C.Y.) / Area (acres): 1078.45  
 Cut volume: 13,303.8 C.F., 492.73 C.Y.  
 Fill volume: 90,596.08 C.F., 3,355.41 C.Y.

### CHECK REPORT: FILL FROM ORIGINAL GRADE TO FINAL GRADE

Volume Report 11/05/2002  
 Comparing GRID file: C:/GEARY ASSOCIATES/...../LANDFILL ORIGINAL.grd  
 and GRID file: C:/GEARY ASSOCIATES/...../FINAL GRADE TOPD.grd  
 Grid corner locations: 2066674.31,173499.28 to 2068306.31,175212.28  
 Grid resolution X: 544, Y: 571 Grid cell size X: 3.00, Y: 3.00  
 Area in Cut : 2,171.1 S.F., 0.05 Acres  
 Area in Fill: 504,354.9 S.F., 11.58 Acres  
 Total inclusion area: 506,525.9 S.F., 11.63 Acres  
 Cut to Fill ratio: 0.00  
 Average Cut Depth: 0.29 Average Fill Depth: 2.66  
 Cut (C.Y.) / Area (acres): 2.02  
 Fill (C.Y.) / Area (acres): 4271.91  
 Cut volume: 635.6 C.F., 23.54 C.Y.  
 Fill volume: 1,341,217.53 C.F., 49,674.72 C.Y.

49,675 - 37,077 = 12,597, WHICH IS CLOSE TO 12,933 (See Sheet 2)

## PETERSBURG LANDFILL CLOSURE CAP SHOWING FINAL GRADE AS-BUILT

FILL FROM LINER CAP TO FINAL GRADE = 37,077 CY  
 Includes general area where cap was installed.

FILL FROM ORIGINAL GRADE TO FINAL GRADE = 3,355 CY  
 Includes area south of landfill and above sediment pond that was not complete when Rough Grade volumes were surveyed.

ORIGINAL: November 5, 2002  
 VERIFIED: December 30, 2002

AS-BUILT

REVISIONS		
No.	DATE	COMMENTS
1	11/05/02	Initial as-built payment quantities
2	12/30/02	Verified as-builts

<b>FINAL GRADE TOPO</b>	
<b>LANDFILL CLOSURE CAP PROJECT</b> Petersburg, West Virginia	
Design by TRIAD Engineering	SCALE: 1" = 50'
<b>SURVEYOR: Geary Associates</b>	DRAWING No. 3
Engineering -- Construction Management -- Surveying Mark C. Geary PE, PS 106 North Main Street Petersburg, WV 26847 BUS: 304-257-2022 FAX: 304-257-2023 E-mail: mgeary@beaconnet.net	