

EM 1110-1-4000

1 Nov 98

Facility/Project Name Memphis Depot/Dunn Field		Local Grid Location of Well 8E	Well Number MW 69
Facility License, Permit or Monitoring Number 99-321-1121 BD		Grid Origin Location Lat. _____ Long. _____ or E. Plane _____ N. Plane _____	Date Well Installed (Start) 11/10/99
Type of Protection Cover: Above-Ground ☒ Flush-To-Ground ☐		Section Location of Waste/Source _____	Date Well Installed (Completed) 11/19/99
Well Distance From Waste/Source Boundary _____		Location of Well Relative to Waste/Source ☐ Upgradient ☐ Sidegradient ☒ Downgradient ☐ Not Known	Well Installed By: (Person's Name & Firm) Glen Baker Tri State Drilling
Hardware Depth of Frost Penetration (estimated) _____			

Note: Use top of casing (TOC) for all depth measurements.

A. Protection casing, top elevation _____ m. MSL

B. Well casing, top elevation **2.5' above** m. MSL

C. Land surface elevation _____ m. MSL

D. Surface seal, bottom _____ m. TOC or _____ m. MSL

16. USCS classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
 SN ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
 Rock ☐

17. Sieve analysis attached? ☐ Yes ☒ No

18. Drilling method used: Rotary ☐
 Hollow Stem Auger ☒
 Other ☐

19. Drilling fluid used: Water ☐ Air ☐
 Drilling Mud ☐ None ☒

20. Drilling additive used? ☐ Yes ☒ No
 Describe _____

21. Source of water (attach analysis):

1. Cap and lock? ☒ Yes ☐ No

2. Protection posts? ☐ Yes ☒ No

3. Protection casing:
 a. Inside diameter: _____ mm.
 b. Length: _____ m.

4. Drainage port(s) ☒ Yes ☐ No

5. Surface seal:
 a. Cap _____
 Gravel blanket ☐
 Bentonite ☐
 Concrete ☐
 Other ☐
 b. Annular space seal: Bentonite ☐
 Cement ☒
 Other ☐

6. Material between well casing and protective casing:
 Bentonite ☐
 Cement ☒
 Other ☐

7. Annular space seal:
 a. Granular Bentonite ☐
 b. Lbs/gal mud weight... Bentonite-sand slurry ☐
 c. Lbs/gal mud weight... Bentonite slurry ☐
 d. **2** x Bentonite _____ Bentonite-cement grout ☒
 e. _____ m.³ volume added for any of the above

8. How installed:
 Tremie ☐
 Tremie pumped ☒
 Gravity ☐

9. Centralizers **Suspender** ☐ Yes ☒ No

10. Secondary Filter ☐ Yes ☒ No
 a. Volume added _____ m.³ Bags/Size

11. Filter pack material:
 a. Manufacturer, product name & mesh size
10-20 Sand
 b. Volume added _____ m.³ Bags/Size

12. Filter pack material: Manufacturer, product name & mesh size
10-20 Sand

13. Well casing: Flush threaded PVC schedule 40 ☒
 Flush threaded PVC schedule 80 ☐
 Other ☐

14. Screen material: **POL**
 a. Screen type: Factory cut ☒
 Continuous slot ☐
 Other ☐
 b. Manufacturer _____
 c. Slot size: **0.5** in.
 d. Slot length: _____ m.

15. Backfill material (below filter pack): None ☒
 Other ☐

E. Secondary filter, top **NA** m. TOC or _____ m. MSL

F. Bentonite seal, top **75.9'** m. TOC or _____ m. MSL

G. Secondary filter, top **NA** m. TOC or _____ m. MSL

H. Primary filter, top **80.1'** m. TOC or _____ m. MSL

I. Screen joint, top **84.2'** m. TOC or _____ m. MSL
84.2'

J. Well bottom (b/c) **94.7'** m. TOC or _____ m. MSL

K. Filter pack, bottom **94.7'** m. TOC or _____ m. MSL

L. Borehole, bottom **94.7'** m. TOC or _____ m. MSL

M. Borehole, diameter **8"** mm.

N. O.D. well casing **2"** mm.

O. I.D. well casing _____ mm.

P. 24-hr water level after completion **84.1'** m. TOC or _____ m. MSL