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End Date: FY 01
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4. Phase:
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6. Survey Type: MONITORING WELL INVENTORY
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State: DC
10. Project Control Number: 38-EH-2169-00
11. Title: MONITORING WELL INVENTORY, WRAMC, 18-22 SEPTEMBER 2000
12. DSA:



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403

Gu

MCHB-TS-EGW (40)

4 APR 2001

MEMORANDUM FOR Commander, Walter Reed Army Medical Center, Environmental
Office, ATTN: MCWR-GEO (Mr. C. Flippo), 6900 Georgia
Avenue, NW, Washington DC 20307-5001

SUBJECT: Monitoring Well Inventory No. 38-EH-2169-00, Walter Reed Army Medical
Center, Washington D.C., 18-22 September 2000

Two copies of the subject report with Executive Summary are enclosed.

FOR THE COMMANDER:

Encl

JOHN W. BAUER, P.G.
Program Manager
Ground Water and Solid Waste

CF (w/encl):
HQDA (DAIM-ED)
DIR POPM-SA, ATTN: MCPO-SA (EXSUM ONLY)
CDR, WRAMC, ATTN: PVNTMED SVC
CDR, USAEC, ATTN: SFIM-AEC-EQ
CDR, USAEC, ATTN: TECH INFO CTR
CDR, CHPPM-N

U.S. Army Center for Health Promotion and Preventive Medicine



MONITORING WELL INVENTORY NO. 38-EH-2169-00
WALTER REED ARMY MEDICAL CENTER
WASHINGTON D.C.
18 - 22 SEPTEMBER 2000

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Apr.01. Request for this document must be referred to Commander,
Walter Reed Army Medical Center, Environmental Office, ATTN:
MCWR-GEO (Mr. C. Flippo), 6900 Georgia Avenue, NW,
Washington DC 20307-5001.

Readiness Thru Health



REPLY TO
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DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403

4 APR 2001

EXECUTIVE SUMMARY
MONITORING WELL INVENTORY NO. 38-EH-2169-00
WALTER REED ARMY MEDICAL CENTER
WASHINGTON D.C.
18 - 22 SEPTEMBER 2000

1. **PURPOSE.** To document the physical condition of all ground-water monitoring wells located on Glen Haven Annex, Forest Glen Annex, and Main Post, Walter Reed Army Medical Center. To identify any actions that should be taken to maintain the physical integrity of the ground-water monitoring well system.

2. **CONCLUSIONS.**

2.1 Nineteen monitoring wells were not properly secured with locks.

2.2 Seven monitoring wells have damaged protective casings.

2.3 Accumulated sediment and/or debris were present in 13 monitoring wells. This could prevent ground-water samples from being representative of conditions in the water table aquifer.

3. **RECOMMENDATIONS.**

3.1 Install locking caps on identified monitoring wells.

3.2 Repair damaged protective casings on identified monitoring wells.

3.3 Remove accumulated sediment and/or debris from identified monitoring wells or, if the wells are no longer necessary, properly decommission them.



REPLY TO
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5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403

MCHB-TS-EGW

MONITORING WELL INVENTORY NO. 38-EH-2169-00
WALTER REED ARMY MEDICAL CENTER
WASHINGTON D.C.
18 - 22 SEPTEMBER 2000

1. REFERENCES.

1.1 Memorandum, USACHPPM, MCHB-DC-EGW, 7 July 1998, Subject: Hydrogeologic Investigation No. 38-EH-8209-98, Walter Reed Army Medical Center, Bldg. 500 Area of the Forest Glen Annex, Silver Spring, Maryland, 11-14 May 1998.

1.2 Memorandum, USACHPPM, MCHB-DC-EGW, 26 January 2001, Subject: Ground-Water Consultation No. 38-EH-2190-00, Walter Reed Army Medical Center, Washington, DC, 18 September – 3 October 2000.

2. **AUTHORITY.** USAEHA Form 250, Request for USAEHA Field Service, Dr. Winston Williams, Walter Reed Army Medical Center (WRAMC) Environmental Office, 25 July 2000, Subject: Perform a ground-water monitoring well inventory at all the monitoring wells at WRAMC-Main Post, Forest Glen Annex and Glen Haven Annex.

3. **PURPOSE.** To document the physical condition of all ground-water monitoring wells located on Main Post, Forest Glen Annex, and Glen Haven Annex, WRAMC. To identify any actions that should be taken to maintain the physical integrity of the ground-water monitoring well system.

4. GENERAL.

4.1 Location. The WRAMC comprises three geographically separate areas: the Forest Glen Annex, Glen Haven Annex, and the Main Post (Figure 1). Forest Glen Annex has the largest number of monitoring wells inspected during this study and will be discussed in greatest detail. Forest Glen Annex is located in Montgomery County, approximately 1/2 mile north of Washington, D.C., near the town of Silver Spring, Maryland. Glen Haven Annex is located approximately 1.5 miles northeast of Forest Glen Annex, also in Montgomery County. The Main Post is located approximately 2 miles to the southeast of Forest Glen Annex in the District of Columbia (reference 1.1).

4.2 Project Personnel. Mr. William Smithson, Supervisory Engineering Technician, and Mr. Robert deSocio, Engineering Technician, U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) conducted this monitoring well inventory.

5. **BACKGROUND AND PREVIOUS INVESTIGATIONS**. Reference 1.2 contains a complete discussion of the background and previous ground-water investigations at Main Post, Forest Glen Annex, and Glen Haven Annex, WRAMC.

6. **PROCEDURES**. The interior of each monitoring well was inspected using a small, "down-hole" video camera that was lowered to the bottom of each well. This camera recorded the condition of the well casing and screen, the presence of any foreign items, and the presence/absence of sediment at the bottom of each well. A video cassette of the monitoring well down-hole recordings is available upon request. The exterior of each monitoring well was visually inspected at the ground surface, with the integrity of the seal and protective casing carefully evaluated. A well inspection log was generated for each monitoring well at Main Post, Forest Glen Annex, and Glen Haven Annex, WRAMC. These completed logs are contained in Appendices A, B, and C.

7. **FINDINGS AND DISCUSSION**. Table 1 summarizes observations concerning the physical conditions of the monitoring wells.

7.1 Well Security. Seventeen of the monitoring wells throughout the WRAMC complex were not secured with a locking cap. Locking caps prevent unauthorized entry and inhibit acts of vandalism or terrorism.

7.2 Debris or Sediment Build-Up. Ten of the monitoring wells at the Forest Glen Annex and all three monitoring wells at the Glen Haven Annex had accumulations of sediment and/or debris in the bottom of the wells. This accumulation of sediment and/or debris may interfere with the flow of water into the well and the sediment may contain contamination that is not representative of the ground water. All four monitoring wells at the Rumbaugh Parking Garage, Main Post were free of debris and sediment.

7.3 Protective Casing. Five monitoring wells at the Forest Glen Annex and two monitoring wells at Glen Haven Annex have damaged protective casings. These damaged protective casings may allow unauthorized entry to the wells, surface water infiltration, and debris accumulation.


8. CONCLUSIONS.

8.1 Nineteen monitoring wells were not properly secured with locks.

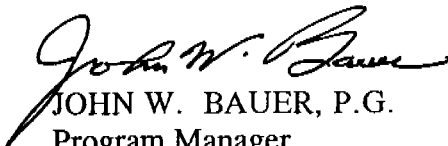
8.2 Seven monitoring wells have damaged protective casings.

9. RECOMMENDATIONS.

- 9.1 Install locking caps on identified monitoring wells.
- 9.2 Repair damaged protective casings on identified monitoring wells.
- 9.3 Remove accumulated sediment and/or debris from identified monitoring wells or, if the wells are no longer necessary, properly decommission them.


for WILLIAM SMITHSON
Section Chief
Engineering Services

APPROVED:


JOHN W. BAUER, P.G.
Program Manager
Ground Water and Solid Waste

APPENDIX A

MAP AND MONITORING WELL INSPECTION LOGS FOR MAIN POST, WRAMC



LOG OF MW- RUM 1

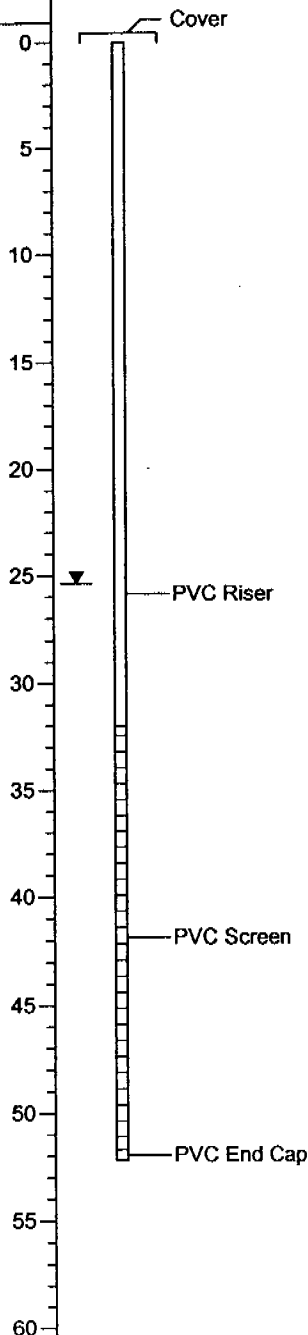
MONITORING WELL INSPECTION LOG
MAIN POST
PROJECT NO. 38-EH-2169-00

DATE : 21 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : RUMBAUGH GARAGE

Depth
in
FEET

Well: RUM 1
Elevation 328.83

REMARKS



Protective casing flush mount.

Well is not labeled on the inside, but is labeled on the outside.

Measuring point is clearly marked.

Protective casing 0.15' below flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 2" PVC in good condition, locking cap, good condition.

Measuring point top of PVC. Top of screen seen by video, seam shown at 31.75'. Screen 2" PVC in good condition, clean and functional. Slot type fine/horizontal.

Sediment or debris not observed

Water level measured at 25.35' from measuring point.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 50.40'.

RECOMMENDATION

1. Install lock.

04-03-2001 C:\Program Files\mtech532\wramdum1.BOR



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LOG OF MW- RUM 3

MONITORING WELL INSPECTION LOG
MAIN POST
PROJECT NO. 38-EH-2169-00

DATE : 21 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : RUMBAUGH GARAGE

Depth
in
FEET

Well: RUM 3
Elevation 327.01

REMARKS

Cover

0

5

10

15

20

25

30

35

40

45

50

55

60

PVC Riser

PVC Screen

PVC End Cap

Protective casing flush mount.

Well is not labeled on the inside, but is labeled on the outside.

Protective casing flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 2" PVC in good condition, locking cap, good condition.

Measuring point top of PVC and is clearly marked. Top of screen seen by video, seam shown at 25.0'
Screen 2" PVC in good condition, functional and clean. Slot type fine/horizontal.

Water level measured at 23.77' from measuring point.

Sediment or debris not observed.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 41.17'.

RECOMMENDATION

1. Install lock.

APPENDIX B

MAP AND MONITORING WELL INSPECTION LOGS FOR FOREST GLEN ANNEX ,
WRAMC



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LOG OF MW- 1

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 18 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : BUILDING 500

Depth
in
FEET

Well: MW-1
Elevation 325.75
Cover

REMARKS

0

PVC Riser

5

10

15

PVC Screen

20

25

PVC End Cap

30

35

40

Original well modified by removal of above ground casing. Flush mount casing installed later.

Well is not labeled on the inside, but is labeled on the outside.

Measuring point is top of PVC and is clearly marked

Protective casing flush with surface, 8" diameter and is damaged.

Concrete surface pad 2' diameter is in good condition

Riser pipe 2" PVC in good condition locking cap, good condition.

Top of screen seen by video, seam located at 4.5' and the 2" PVC is in good condition, slot type line/horizontal. Screen appears clean and functional. Water level measured at 20.14' from measuring point.

No sediment or debris observed.

Area around well clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 24.95'.

RECOMMENDATION

1. Install lock.
2. Repair damaged casing



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LOG OF MW- 5

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 18 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : BUILDING 500

Depth
in
FEET

Well: MW-5
Elevation 326.86
Cover

REMARKS

0

5

10

15

20

25

30

35

40

PVC Riser

PVC Screen

PVC End Cap

Original well modified by removal of above ground casing. Flush mount casing installed later.

Well is not labeled on the inside, but is labeled on the outside.

Measuring point is top of PVC and is clearly marked.

1" diameter Protective casing flush with surface and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 2" PVC in unknown condition, locking cap, with lock.

Top of screen was not seen by Video and screen location is estimated from Well Summary of June 1989.

Screen 2" PVC in unknown condition.

Water level measured at 19.39' from measuring point.

Sediment and debris probably present based on the difference between the present and original well bottom measurements.

Area around well is clean, secure, free from erosion, cracks.

RECOMMENDATION

1. Remove sediment and debris



LOG OF MW- 9

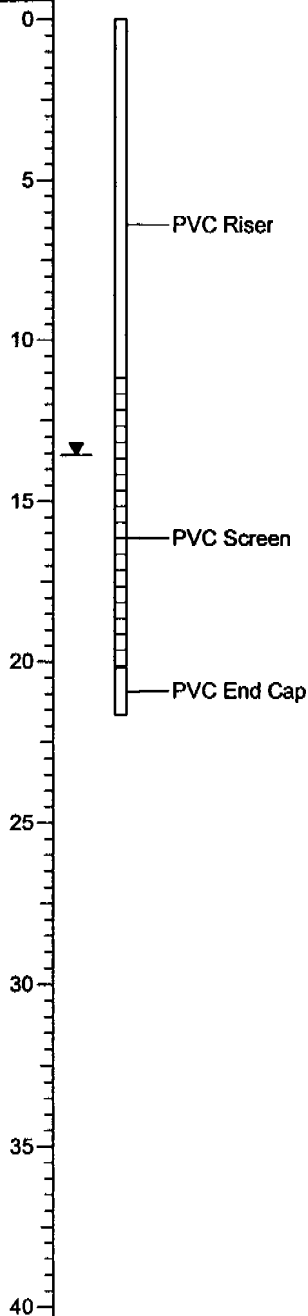
MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 27 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : BUILDING 500

Depth
in
FEET

Well: MW-9
Elevation 316.68
Cover

REMARKS



Original well modified by removal of above ground casing. Flush mount casing installed later.

Well is labeled on the inside, but not labeled on the outside.

Measuring point top of PVC and is clearly marked.

Protective casing flush with surface, 8" diameter and is in good condition

Concrete surface pad 2' diameter is in good condition.

Riser pipe 2" PVC in good condition, locking cap, good condition.

Top of screen seen by video, seam shown at 11'-3" and 2" PVC in good condition, slot type fine/horizontal.

Water level measured at 13.45' from the measuring point.

Sediment or debris were not observed.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 21'-3".

RECOMMENDATION

1. Install lock.



LOG OF MW- 11

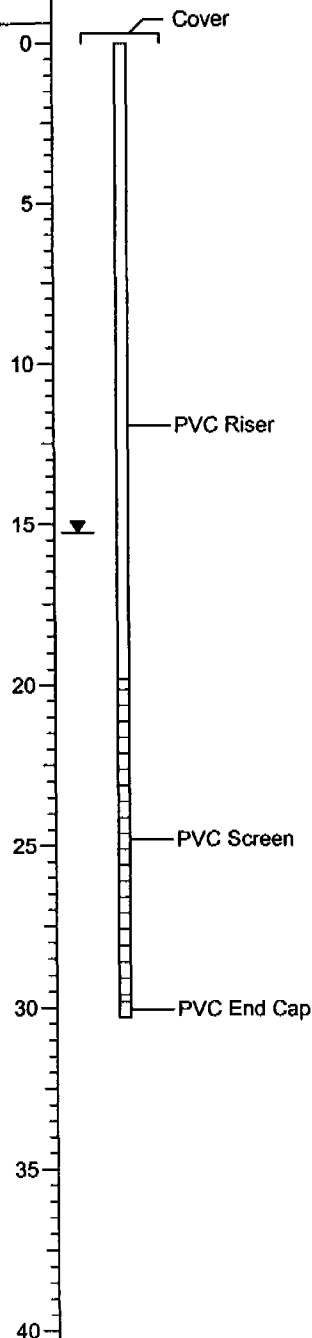
MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 20 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : MOTOR POOL DISPATCH

Depth
in
FEET

Well: MW-11
Elevation 316.34

REMARKS



Protective casing flush mount in good condition. Not secure due to space limits.

Well is labeled on the inside MO.88.2217 AEHA 11, but not labeled on the outside.

Measuring point is clearly marked.

Protective casing flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 4" PVC in good condition.

Measuring point top of PVC and top of screen seen by video, seam shown at 20.0'. Screen 4" PVC in good condition, functional. Slot type fine/horizontal.

Water level measured at 15.27' from measuring point.

Sediment, debris, and objects observed, possible abandoned bailer and cord.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 29.80'.

RECOMMENDATIONS

1. Trim PVC riser and install expandable cap.
2. Remove sediment and debris.
3. Install lock.



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LOG OF MW- 13

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 13 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : MOTOR POOL

Depth
in
FEET

Well: MW-13
Elevation 313.94

Cover

PVC Riser

PVC Screen

PVC End Cap

REMARKS

Protective casing flush mount. Tag inside MO.88.2216

Well is labeled on the inside and the outside.

Measuring point top of PVC and is clearly marked.

Protective casing flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 4" PVC in good condition, locking cap, good condition.

Top of screen seen by video, seam shown at 19'-10". Screen 4" PVC in good condition, and appears functional and clean. Slot type fine/horizontal.

Water level measured at 12.64' from measuring point.

Sediment or debris not observed.

Area around well is clean, secure, free from erosion, cracks.

RECOMMENDATION

1. Install lock.



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LOG OF MW- 16

MONITORING WELL INSPECTION LOG FOREST GLEN ANNEX PROJECT NO. 38-EH-2169-00

DATE : 20 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : BUILDING 500

Depth
in
FEET

Well: MW-16
Elevation 319.24

Cover

PVC Riser

PVC Screen

PVC End Cap

REMARKS

Protective casing flush mount repaired by replacing manhole and providing new concrete pad.

Well is labeled on the inside, but not labeled on the outside.

Measuring point is top of PVC and is clearly marked.

Protective casing flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 4" PVC in good condition, locking cap, good condition.

Top of screen seen by video, seam shown at 15'-3". Screen appears dirty but functional. 4" PVC in good condition, slot type fine/horizontal. Water level measured at 16.39' from measuring point.

Sediment and debris was observed.

Area around well is clean, secure, free from erosion, cracks.

Well has moderate curvature.

Depth to bottom from measuring point: 21'.

RECOMMENDATIONS

1. Remove sediment and debris.
2. Install lock.



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Readiness thru Health

LOG OF MW- 103

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 27 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : BUILDING 500

Depth
in
FEET

Well: MW-103
Elevation 316.73

REMARKS

Cover

0

5

PVC Riser

10

15

20

25

PVC Screen

30

35

PVC End Cap

40

Protective casing not secure. New cap will not allow manhole cover to fit properly.

Well is not labeled on the inside, but is labeled on the outside.

Measuring point is clearly marked.

Protective casing flush with surface, 8" diameter and in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 4" PVC in good condition, locking cap, good condition, improper fit. Surface seal is not present.

Measuring point top of PVC and top of screen seen by video, seam shown at 15'-6". Screen 4" PVC in unknown condition. Screen functional.

Water level measured at 22.40' from measuring point.

Sediment and debris observed. Absorbant pad in well 1" saturation fuel oil odor, free floating product.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 35.5'.

RECOMMENDATIONS

1. Repair surface seal.
2. Remove sediment and debris.
3. Install locking cap.



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Readiness thru Health

LOG OF MW- 94-0199

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 20 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : AAFES GAS STATION

Depth
in
FEET

Well: MW-94-0199
Elevation 308.79

REMARKS

Cover

0

5

PVC Riser

10

15

20

PVC Screen

25



30

PVC End Cap

35

40

Protective casing flush mount. Tag inside marked MO.94.0199.

Well is labeled on the inside, not labeled on the outside.

Measuring point is clearly marked

Protective casing flush with surface, 8" diameter and is in good condition.

Concrete surface pad 2' diameter is in good condition.

Riser pipe 4" PVC in good condition, locking cap, good condition.

Measuring point top of PVC, Top of screen seen by video, seam shown at 10.0'. Screen 4" PVC in deteriorating condition, slot type fine/horizontal.

Sediment, possibly algae observed.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 34.85'.

RECOMMENDATIONS

1. Remove sediment and algae.
2. Install lock.



LOG OF MW- B

MONITORING WELL INSPECTION LOG
FOREST GLEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 20 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : AAFES GAS STATION

Depth
in
FEET

REMARKS

0

Vapor monitoring well tube

5

Protective casing flush with surface 12" diameter and is in good condition.

Concrete surface pad 3' diameter is in good condition.

10

Riser pipe 4" PVC in good condition, locking cap, good condition.

Area around well is clean, secure, free from erosion, cracks

15

20

25

30

35

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APPENDIX C

MAP AND MONITORING WELL INSPECTION LOGS FOR GLEN HAVEN ANNEX ,
WRAMC



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Readiness thru Health

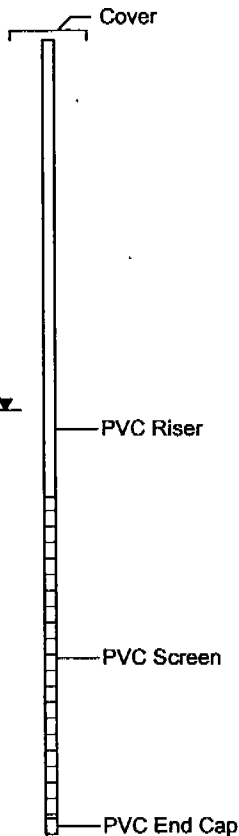
LOG OF MW- 88-2444

MONITORING WELL INSPECTION LOG
GLEN HAVEN ANNEX
PROJECT NO. 38-EH-2169-00

DATE : 21 SEP 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : GLEN HAVEN STREET

Depth
in
FEET

Well: MW-88-2444
Elevation 362.49



REMARKS

Original well modified by removal of flush mount casing. Water valve access casing installed during paving of street.

Well is labeled on the inside, but not labeled on the outside.

Measuring point is clearly marked.

Water valve protective casing flush with surface, 6" diameter. A cover was obtained and temporarily installed until a proper flush mount casing can be installed.

Street paving is in good condition.

Riser pipe 4" PVC in good condition, locking cap, lock, good condition.

Measuring point top of PVC. Top of screen seen by video, seam shown at 14.25'. Screen 4" PVC in good condition, clean and functional but some sediment observed. Slot type fine/horizontal.

Water level measured at 11.54' from measuring point.

Area around well is clean, secure, free from erosion, cracks.

Depth to top of sediment from measuring point, 23.0'.

RECOMMENDATIONS

1. Repair protective casing.
2. Remove sediment and debris.

OR

1. Decommission per recommendation in reference 1.2.



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LOG OF MW- 88-2446

MONITORING WELL INSPECTION LOG GLEN HAVEN ANNEX PROJECT NO. 38-EH-2169-00

DATE : 21 Sep 2000
INSPECTOR : BILL SMITHSON
TECHNICIAN : BOB DESOCIO
WEATHER : CLEAR
LOCATION : REAR SHED, COMMON AREA

Depth
in
FEET

Well: MW-88-2446
Elevation 366.32

REMARKS

Cover

0

5

10

15

20

25

30

35

40



PVC Riser

PVC Screen

PVC End Cap

Protective casing flush mount.

Well is not labeled on the inside, or the outside.

Measuring point top of PVC and is clearly marked.

Protective casing flush with surface, 8" diameter and is not secure.
Concrete surface pad 2" diameter is in good condition.

Riser pipe 4" PVC broken off approx. 2" below the surface in the casing. Locking cap, lock, good condition.

Top of screen seen by video, seam shown at 17.0'. Screen 4" PVC in good condition, clean and functional. Slot type fine/horizontal.

Water level measured at 13.80' from measuring point.

Sediment observed.

Area around well is clean, secure, free from erosion, cracks.

Depth to bottom from measuring point, 26.9'.

RECOMMENDATIONS

1. Repair broken PVC riser.
2. Remove sediment.

OR

1. Decommission well per recommendation in reference 1.2.