

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Bldg. H-3, Columbus OH 43229-6693

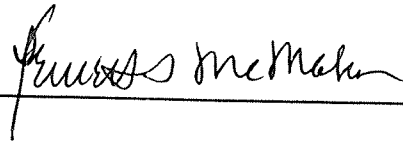
1. DATE OF APPLICATION: <u>23-Dec-11</u>	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.: American Water Management Services LLC, One American Way, Warren, Ohio 44484, (330) 856-8800	3. API #: 4. WELL #: <u>2</u> 5. LEASE NAME: <u>AWMS-2</u> 6. PROPERTY OWNER: <u>Gearmar Properties, Inc.</u> 7. COUNTY: <u>Trumbull</u> 8. CIVIL TOWNSHIP: <u>Weathersfield</u> 9. SECTION: <u>9</u> 10. LOT:
11. CURRENT LAND USE: <input type="checkbox"/> Cropland <input type="checkbox"/> Commercial <input type="checkbox"/> Pasture <input type="checkbox"/> Idle Land <input type="checkbox"/> Wetlands <input type="checkbox"/> Recreational <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike	17. TYPE OF WELL: <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other 18. STEEPEST SLOPE GRADIENT CROSSING SITE: <input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8% <input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> 10.1 to 24% <input type="checkbox"/> greater than 24%
12. SLOPE GRADIENT & LENGTH DETERMINED FROM: <input type="checkbox"/> Ground Measurement <input checked="" type="checkbox"/> U.S. Geological Survey Topographical Maps <input type="checkbox"/> Other: (explain) _____	19. LENGTH OF STEEPEST SLOPE CROSSING SITE: <input type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input checked="" type="checkbox"/> greater than 400 ft.
13. TYPE OF FALL VEGETAL COVER: <input checked="" type="checkbox"/> Little or no vegetal cover <input type="checkbox"/> Short grasses <input type="checkbox"/> Tall weeds or short brush (1 to 2 ft.) <input type="checkbox"/> Brush or bushes (2 to 6 ft.) <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees with sparse low brush <input type="checkbox"/> Trees with dense low brush	20. RESTORATION OF DRILLING PITS: ** <input checked="" type="checkbox"/> Haul drilling fluids and fill pits <input type="checkbox"/> Use steel circulating tanks <input type="checkbox"/> Proposed alternative _____ 21. BACKFILLING AND GRADING AT SITE: <input type="checkbox"/> Construct diversions channeled to naturally established drainage systems <input type="checkbox"/> Construct terraces across slopes <input checked="" type="checkbox"/> Grade to approximate original contour <input type="checkbox"/> Grade to minimize erosion & control offsite runoff <input type="checkbox"/> Proposed alternative _____
14. SOIL & RESOILING MATERIAL AT WELLSITE: <input type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed <input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer) <input checked="" type="checkbox"/> No resoiling planned <input type="checkbox"/> Proposed alternative _____	22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE: <input type="checkbox"/> Seeding plan <input type="checkbox"/> Sod <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes <input checked="" type="checkbox"/> Proposed alternative <u>restore to original cover</u>
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS: <input type="checkbox"/> No trees disturbed <input type="checkbox"/> Haul to landfill <input type="checkbox"/> Cut into firewood <input type="checkbox"/> Sell to lumber <input checked="" type="checkbox"/> Bury with landowner's approval company <input type="checkbox"/> Mulch small trees and branches, erosion control <input type="checkbox"/> Use for wildlife habitat with landowner approval <input type="checkbox"/> Proposed alternative _____	23. ADDITIONAL HOLES: <input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged 24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD: <input type="checkbox"/> 100 ft. or less <input type="checkbox"/> 101 to 500 ft. <input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES: <input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water <input type="checkbox"/> Tile drainage system underlying land to be disturbed <input type="checkbox"/> Drain pipe(s) underlying land to be disturbed <input type="checkbox"/> Surface drainage facilities on land to be disturbed	25. CURRENT LAND USE OF PATH OF ACCESS ROAD: <input type="checkbox"/> Cropland <input type="checkbox"/> Pasture <input type="checkbox"/> Commercial <input type="checkbox"/> Idle land <input type="checkbox"/> Wetlands <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Residential <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike

****PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.**

REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.

26. SURFACING MATERIAL FOR ACCESS ROAD: <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Brick and/or tile waste <input checked="" type="checkbox"/> Slag <input type="checkbox"/> Crushed stone <input type="checkbox"/> No surfacing material to be used <input type="checkbox"/> Proposed alternative	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD: <input checked="" type="checkbox"/> 0 to 5% <input type="checkbox"/> 6 to 10% <input type="checkbox"/> greater than 10%
27. PATH OF ACCESS ROAD TO BE DETERMINED BY: <input type="checkbox"/> Landowner <input type="checkbox"/> Contractor <input checked="" type="checkbox"/> Existing access road <input checked="" type="checkbox"/> Operator	30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD: <input type="checkbox"/> 0 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.
28. GRADING AND EROSION CONTROL PRACTICE ON ROAD: <input checked="" type="checkbox"/> Diversions <input type="checkbox"/> Filter strips <input type="checkbox"/> Drains <input type="checkbox"/> Riprap <input type="checkbox"/> Open top culverts <input type="checkbox"/> Water breaks <input checked="" type="checkbox"/> Outsloping of road <input type="checkbox"/> Pipe culverts <input type="checkbox"/> Proposed alternative	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

The undersigned hereby agrees to implement all restoration operations identified on this form, and conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent 

Name (Typed or Printed) Kenneth J. McMahon, President Date 12-23-11

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DEC 27 2011

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Signature of Owner/Authorized Agent *Kenneth J. McMahon*

Name (Typed or Printed) Kenneth J. McMahon, President Date 12-23-11

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RECEIVED



0' 150' 300'
SCALE: 1" = 300'

WEST LINE OF SECTION 9
SECTION 10

22526
Oil & Gas Well

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

AWMS-2

AWMS-1

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

21622
Gas Well

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

RECEIVED

JAN 12 2012

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443198	Lat: 41.1954141°
Y: 561654	Lon: -80.7749721°
Elev: 909 (NAVD 88)	

AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443193	Lat: 41.1957206°
Y: 561766	Lon: -80.7749819°
Elev: 909 (NAVD 88)	

AWMS-2 NAD 27 NORTH
X: 2474652
Y: 561734

- Injection Well
- New Location

- Injection Well
- New Location

674' SL & 2153' WL OF SECT 9 5.2 ACRES NRG/LCKP-SWIW-RT

BAIR, GOODIE AND ASSOCIATES, INC.

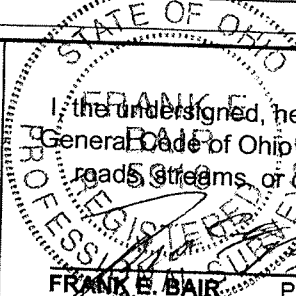
153 NORTH BROADWAY, NEW PHILADELPHIA, OHIO
TELEPHONE: (330) 343-3499, FAX: (330) 343-9505

Company: American Water Management Services LLC
 Address: One American Way, Warren, Ohio 44484
 Lease Name: Niles Injection Site Drilling Unit: 5.20 acres
 Well(s): AWMS-1 & AWMS-2

Quad: Warren Subdivision: Connecticut Western Reserve
 Location: Section 9, T-3N, R-3W
 Twp: Weathersfield County: Trumbull
 Surveyor: FEB Draftsman KT Date: 01.10.2011

MAP

Showing Proposed New
 Location or Abandoned Well
 State of Ohio
 Dept. of Natural Resources
 Division of Oil & Gas
 Fountain Square,
 Columbus, Ohio 43224



CERTIFICATE OF SURVEYOR

I, the undersigned, hereby certify that this map is true and correct as required by the
 General Code of Ohio and that there are no production wells within 570 feet and no
 roads, streams, or dwellings within 500 feet of this location, except as shown.

FRANK E. BAIR P.S. NO. 5918

1/10/12
DATE



0' 150' 300'
SCALE: 1" = 300'

22526
Oil & Gas Well

WEST LINE OF SECTION 9
SECTION 10

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

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22.8935 ac.
Parcel: 24-310900

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443198	Lat: 41.1954141°
Y: 561654	Lon: -80.7749721°
Elev: 909 (NAVD 88)	

- Injection Well
- New Location

AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443193	Lat: 41.1957206°
Y: 561766	Lon: -80.7749819°
Elev: 909 (NAVD 88)	

- Injection Well
- New Location

BAIR, GOODIE AND ASSOCIATES, INC.

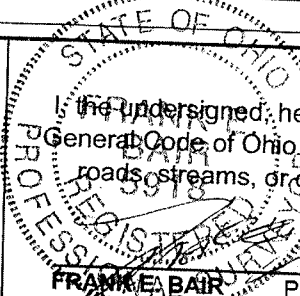
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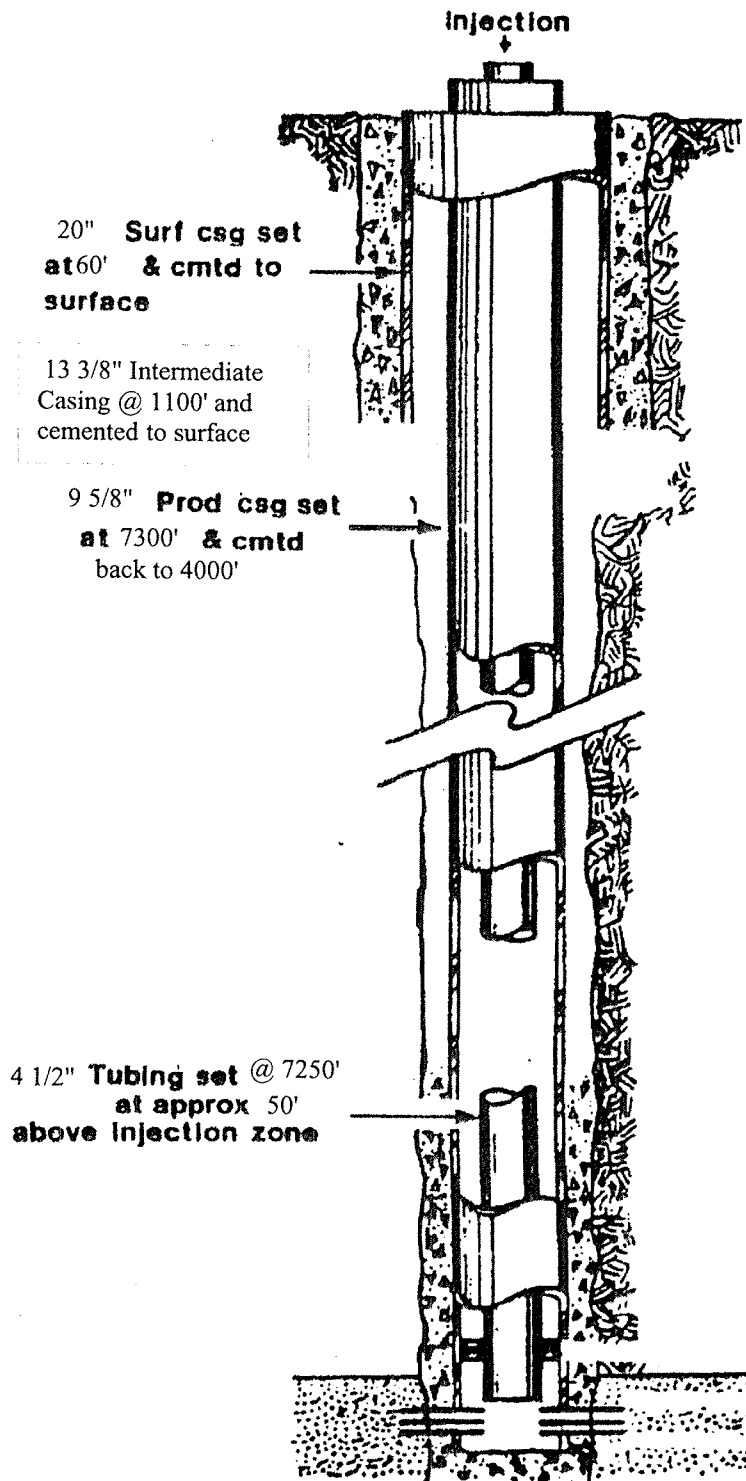
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Trumbull County, Weathersfield Twp.,
SWIW #22 AWMS #2

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 1680 psi



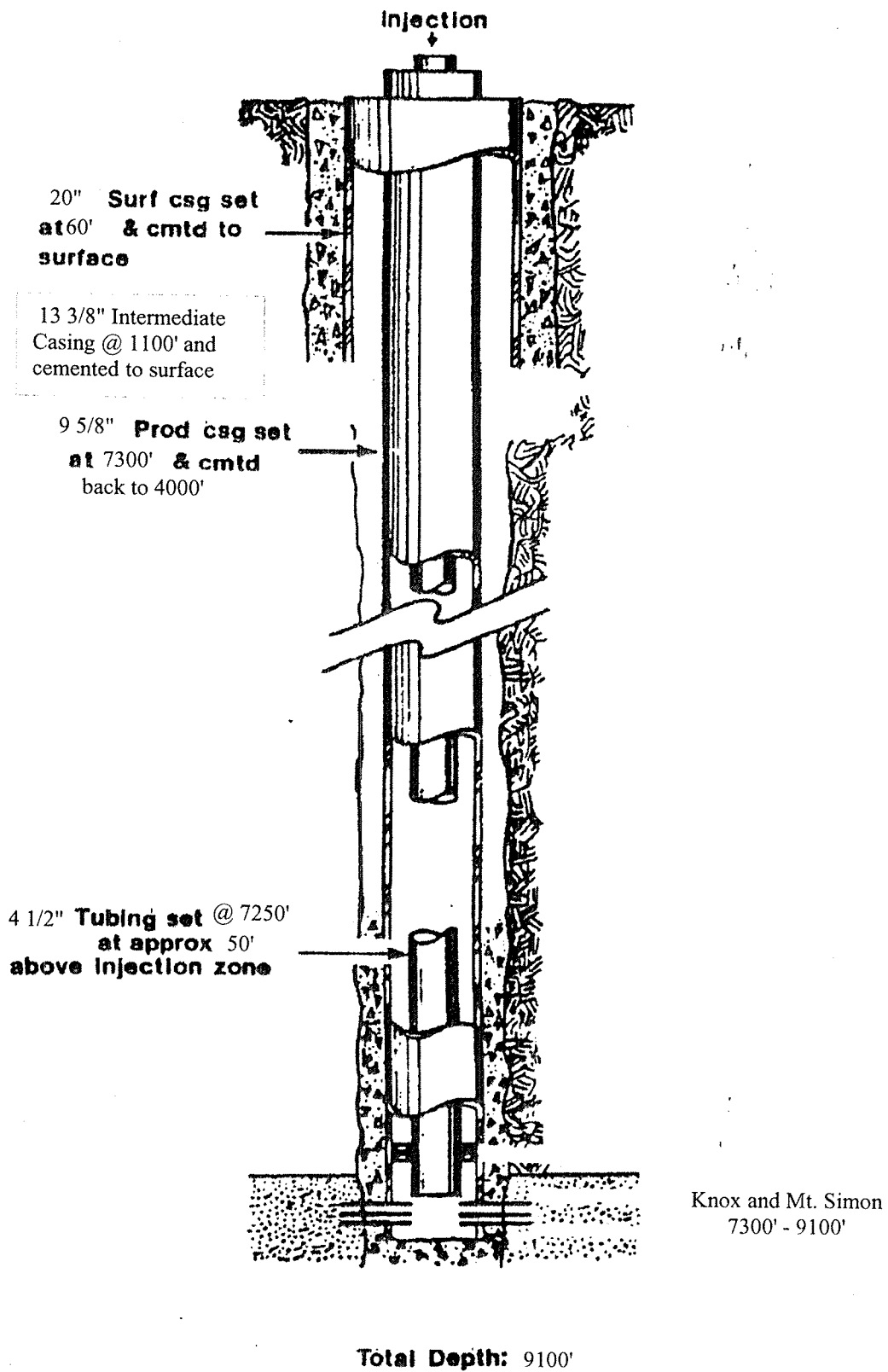
Knox and Mt. Simon
7300' - 9100'

Total Depth: 9100'

Trumbull County, Weathersfield Twp.,
SWIW #22 AWMS #2

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 1680 psi





RECEIVED

JAN 18 2012

0' 150' 300'
SCALE: 1" = 300'

22526
Oil & Gas Well

WEST LINE OF SECTION 9
SECTION 10

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AWMS-2

AWMS-1

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- Injection Well
- New Location

AWMS-2

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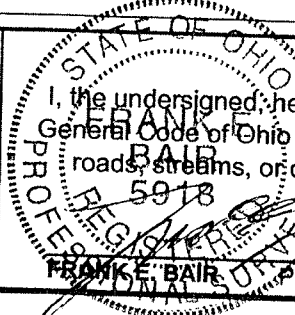
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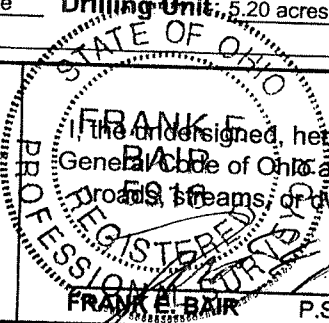
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AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443193	Lat: 41.1957206°
Y: 561766	Lon: -80.7749819°
Elev: 909 (NAVD 88)	

.... Injection Well
 New Location

BAIR, GOODIE AND ASSOCIATES, INC.

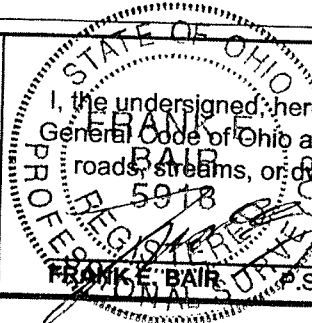
153 NORTH BROADWAY, NEW PHILADELPHIA, OHIO
TELEPHONE: (330) 343-3499, FAX: (330) 343-9505

Company: American Water Management Services LLC
Address: One American Way, Warren, Ohio 44484
Lease Name: Niles Injection Site Drilling Unit: 5.20 acres
Well(s): AWMS-1 & AWMS-2

Quad: Warren Subdivision: Connecticut Western Reserve
Location: Section 9, T-3N, R-3W
Twp: Weathersfield County: Trumbull
Surveyor: FEB Draftsman KT Date: 01.10.2011

MAP

Showing Proposed New
Location or Abandoned Well
State of Ohio
Dept. of Natural Resources
Division of Oil & Gas
Fountain Square,
Columbus, Ohio 43224

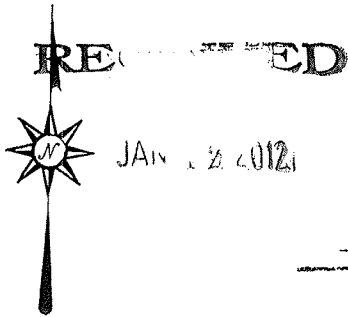


CERTIFICATE OF SURVEYOR

I, the undersigned, hereby certify that this map is true and correct as required by the General Code of Ohio and that there are no production wells within 570 feet and no roads, streams, or dwellings within 500 feet of this location, except as shown.

FRANK E. BAIR
P.S. NO. 5918

1/10/12
DATE



0' 150' 300'
SCALE: 1" = 300'

22526
Oil & Gas Well

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

**5.20 Acre
Drilling Unit**

AWMS-2

AWMS-1

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

**T-3W, R-3N,
WEATHERSFIELD TWP.**

CORPORATION LIMITS
CITY OF NILES

23395
Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443198	Lat: 41.1954141°
Y: 561654	Lon: -80.7749721°
Elev: 909 (NAVD 88)	

.... Injection Well
 New Location

AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443193	Lat: 41.1957206°
Y: 561766	Lon: -80.7749819°
Elev: 909 (NAVD 88)	

.... Injection Well
 New Location

BAIR, GOODIE AND ASSOCIATES, INC.

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TELEPHONE: (330) 343-3499, FAX: (330) 343-9505

Company: American Water Management Services LLC

Address: One American Way, Warren, Ohio 44484

Lease Name: Niles Injection Site **Drilling Unit:** 5.20 acres

Well(s): AWMS-1 & AWMS-2

Quad: Warren **Subdivision:** Connecticut Western Reserve

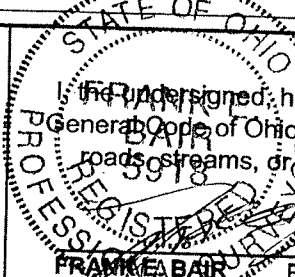
Location: Section 9, T-3N, R-3W

Twp: Weathersfield **County:** Trumbull

Surveyor: FEB **Draftsman:** KT **Date:** 01.10.2011

MAP

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Location or Abandoned Well
State of Ohio
Dept. of Natural Resources
Division of Oil & Gas
Fountain Square,
Columbus, Ohio 43224



CERTIFICATE OF SURVEYOR

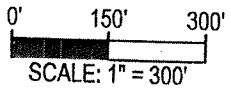
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FRANK BAIR P.S. NO. 5918

DATE

RECEIVED

JAN 12 2012



WEST LINE OF SECTION 9

SECTION 10

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

AWMS-1

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.... Injection Well
 New Location

BAIR, GOODIE AND ASSOCIATES, INC.

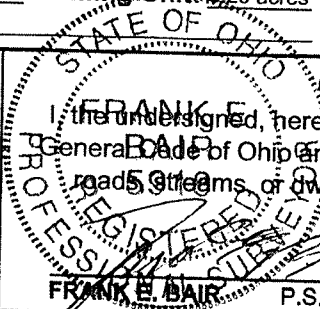
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Lease Name: Niles Injection Site Drilling Unit: 5.20 acres
Well(s): AWMS-1 & AWMS-2

Quad: Warren Subdivision: Connecticut Western Reserve
Location: Section 9, T-3N, R-3W
Twp: Weathersfield County: Trumbull
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Location or Abandoned Well
State of Ohio
Dept. of Natural Resources
Division of Oil & Gas
Fountain Square,
Columbus, Ohio 43224

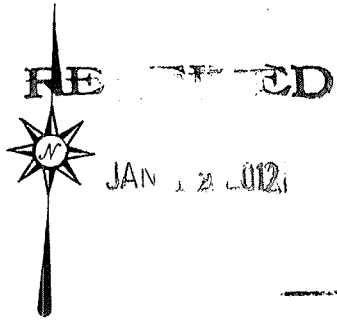


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FRANK E. BAIR P.S. NO. 5918

1/10/12
DATE



SCALE: 1" = 300'

22526 Oil & Gas Well

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre Drilling Unit

AWMS-2

AWMS-1

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

23395 Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443198	Lat: 41.1954141°
Y: 561654	Lon: -80.7749721°
Elev: 909 (NAVD 88)	

AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443193	Lat: 41.1957206°
Y: 561766	Lon: -80.7749819°
Elev: 909 (NAVD 88)	

.... Injection Well
 New Location

.... Injection Well
 New Location

BAIR, GOODIE AND ASSOCIATES, INC.

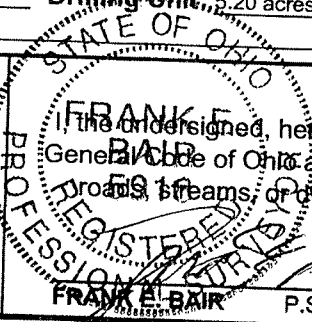
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Address: One American Way, Warren, Ohio 44484
Lease Name: Niles Injection Site
Well(s): AWMS-1 & AWMS-2

Quad: Warren Subdivision: Connecticut Western Reserve
Location: Section 9, T-3N, R-3W
Twp: Weathersfield County: Trumbull
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MAP

Showing Proposed New Location or Abandoned Well State of Ohio
Dept. of Natural Resources
Division of Oil & Gas
Fountain Square,
Columbus, Ohio 43224



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RECEIVED

JAN 12 2012

0' 150' 300'
SCALE: 1" = 300'

22526
Oil & Gas Well

WEST LINE OF SECTION 9
SECTION 10

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

HEATON-CHUTE ADDITION NO. 2
P.V. 12, P. 58

HEATON-CHUTE ADDITION NO. 1
P.V. 12, P. 58

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

21622
Gas Well

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

AWMS-1

AWMS-2

STATE PLANE	GEOGRAPHIC
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☒.... Injection Well

☒.... New Location

☒.... Injection Well

☒.... New Location

BAIR, GOODIE AND ASSOCIATES, INC.

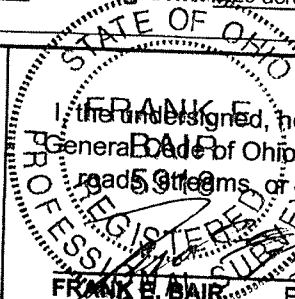
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TELEPHONE: (330) 343-3499, FAX: (330) 343-9505

Company: American Water Management Services LLC
Address: One American Way, Warren, Ohio 44484
Lease Name: Niles Injection Site **Drilling Unit** 5.20 acres
Well(s): AWMS-1 & AWMS-2

Quad: Warren Subdivision: Connecticut Western Reserve
Location: Section 9, T-3N, R-3W
Twp: Weathersfield County: Trumbull
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MAP

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State of Ohio
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Jan 12 2012

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22526
Oil & Gas Well

Gearmar Properties, Inc.
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101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

AWMS-2
AWMS-1

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P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

23395
Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
X: 2443198	Lat: 41.1954141°
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.... Injection Well
 New Location

AWMS-2

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
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.... Injection Well
 New Location

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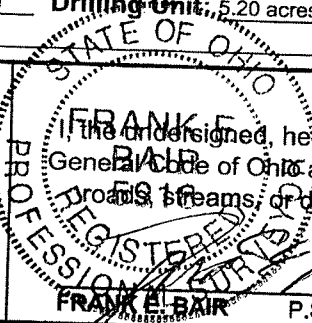
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State of Ohio
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Oil & Gas Well

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101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre
Drilling Unit

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P.V. 55, P. 50

Gearmar Properties, Inc.
Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

21622
Gas Well

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
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Twp: Weathersfield

County: Trumbull

Surveyor: FEB

Draftsman KT

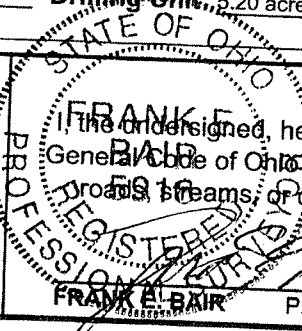
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5.20 Acre
Drilling Unit

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21622
Gas Well

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395
Oil & Gas Well

AWMS-1

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AWMS-2

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- Injection Well
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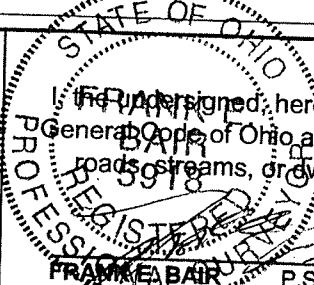
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22526
Oil & Gas Well

WEST LINE OF SECTION 9
SECTION 10

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101.7372 ac. per Auditor
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5.20 Acre
Drilling Unit

AWMS-2

AWMS-1

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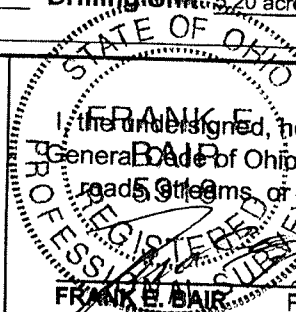
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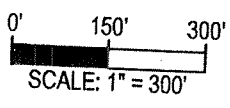
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JAN 12 2012



22526 Oil & Gas Well

Gearmar Properties, Inc.
Instr: 200308220036899
101.7372 ac. per Auditor
Parcel: 24-311300

5.20 Acre Drilling Unit

AWMS-2

AWMS-1

GEARMAR INDUSTRIES PLAT No. 1
P.V. 55, P. 50

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Instr: 200308220036899
P.V. 55, P. 50
22.8935 ac.
Parcel: 24-310900

21622 Gas Well

T-3W, R-3N,
WEATHERSFIELD TWP.

CORPORATION LIMITS
CITY OF NILES

WEATHERSFIELD TWP.

23395 Oil & Gas Well

AWMS-1

STATE PLANE	GEOGRAPHIC
NAD 83 - OH (N)	NAD 83
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- Injection Well
- New Location

AWMS-2

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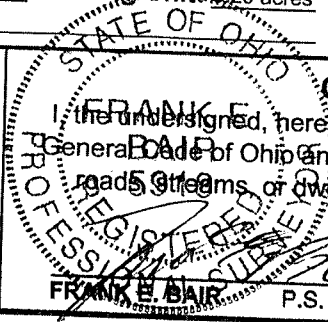
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1/10/12
DATE

**QUALITY ASSURANCE/QUALITY CONTROL
(QA/QC) PLAN**

GEOSYNTHETIC MATERIALS

AMERICAN WATER MANAGEMENT SERVICES, LLC
NILES INJECTION SITE
TRUMBULL COUNTY, OHIO

December 2011

Prepared by:

North Point Engineering
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SECTION 1.0

PERSONNEL AND QUALIFICATIONS

1.0 Overview

This construction QA/QC plan is intended to provide information regarding the methods, tests, and pass/fail criteria for construction of the geosynthetic lining system in the storage and containment system at the AWMS Niles Injection Site.

2.0 Qualifications of QA/QC Personnel

Individuals serving in the capacity of QA/QC personnel during site construction will have a degree in engineering or a related field or will have prior experience acceptable to the Owner in the performance of the specific task to be overseen. Accordingly, these personnel will be knowledgeable in the manufacturer's recommended field installation QA/QC procedures for any geosynthetic product that is placed in the construction area. Where appropriate, the personnel will have the proper certification and training in the operation of field-measuring equipment.

3.0 Definitions and Use of Terms

The following provides general information regarding specific terms, references, and units as used in the QA/QC Plan.

A. Definitions Relating to QA/QC

In the context of this QA/QC Plan, Construction Quality Assurance and Construction Quality Control are defined as follows:

1. Construction Quality Assurance (CQA): A planned and systematic pattern of means and actions employed to provide confidence that items or services meet contractual and regulatory requirements and will perform as specified in service.
2. Construction Quality Control (CQC): Those actions that provide a means to measure and regulate the characteristics of an item or service to contractual and regulatory requirements.

B. Use of Terms

In the context of this QA/QC Plan, the terms CQA and CQC are used as follows:

CQA refers to measures taken by the Owner to determine if the Contractors are in compliance with the design plans and specifications. CQC refers to measures taken by the Contractor to determine compliance with the requirements for materials and workmanship as stated in the contract drawings and specifications.

D. QA/QC Consultant/Owner's Representative

The QA/QC Consultant/Owner's Representative is responsible for observing and documenting activities related to the permit documents and the QA/QC Plan. The QA/QC Consultant is represented by the on-site QA/QC monitoring personnel as appropriate. In general, the responsibilities and authorities of the QA/QC Consultant include:

- Complete understanding of the permit documents, design plans, and specifications in relation to all aspects of the QA/QC Plan.
- Scheduling, coordinating, and performing QA/QC activities;
- Performing independent on-site observation of the work in progress to assess compliance with the QA/QC Plan, permit documents, design plans, and technical specifications;
- Recognizing and reporting deviations from the QA/QC Plan, permit documents, design plans, and/or specifications to the Engineer and Project Manager.
- Secure documents which approve changes to the QA/QC Plan, permit documents, design plans, and/or specifications;
- Verifying that the QA/QC Consultant's test equipment meets testing and calibration requirements, and that tests are conducted according to standardized procedures defined in the QA/QC Plan;
- Recording and maintaining test data accurately;
- Identifying QA/QC-tested work that should be accepted, rejected, or further evaluated;
- Verifying that corrective measures are implemented;
- Documenting and reporting QA/QC activities;
- Collecting data needed for record documentation and
- Maintaining open lines of communications with other parties involved in the construction.

Certifications shall bear the seal of a Professional Engineer registered in the state of Ohio.

E. Geosynthetics CQA Laboratory

The Geosynthetics CQA Laboratory is responsible for performing the laboratory testing required by the QA/QC Plan to determine specific characteristics of the geosynthetics. The Geosynthetics CQA Laboratory is also responsible for providing adequate documentation of analytical results, test methods followed, and testing equipment used. Work of the Geosynthetics CQA Laboratory will be administered by the QA/QC Consultant. All results should be reported to the QA/QC Consultant.

F. Earthwork Contractor or "Contractor"

The Earthwork Contractor is responsible for moving earth to establish the proposed grades, preparation of the recompacted soil liner, and for the placement of the soil and granular materials composing the soils components of the storage and

5.0 Project Meetings

To achieve a high degree of quality during installation, clear, open channels of communication are essential. The following meetings should be held when appropriate.

A. Pre-construction Meeting

Following the completion of the contract documents and selection of a QA/QC Consultant for the project, a Pre-construction Meeting shall be held. The meeting may be attended by the Project Manager, the QA/QC Consultant's Engineer, the QA/QC Consultant's Inspection personnel, the Geosynthetics Installer's Superintendent, the Earthwork Contractor's Superintendent, and other involved parties.

B. Daily Meetings

A daily meeting shall be held, as necessary, between the QA/QC Consultant, the Geosynthetic Installer, the Earthwork Contractor, the Project Manager, the Owner, and other involved parties. Those attending will discuss, plan, coordinate the work, and QA/QC activities to be completed that day.

C. Progress Meetings

Progress meetings shall be held as necessary. Attendees shall include the Project Manager, the QA/QC Consultant, the Geosynthetic Installer, the Earthwork Contractor, and other involved parties. Those attending will discuss current progress, planned activities for the next week, and new business or revisions to the work. The QA/QC Consultant will log problems, decisions, or questions arising at this meeting.

D. Problem or Work Deficiency Meeting

A special meeting shall be held when and if a problem or deficiency, which would impact the construction schedule, is present or likely to occur. At a minimum, the meeting shall be attended by the affected contractors, the Project Manager, and the QA/QC Consultant. The purpose of the meeting is to define and resolve the problem or work deficiency.

6.0 Qualifications of Key Personnel and Organizations

The following qualifications shall be required of the key personnel and organizations involved in the construction of the storage and containment system.

A. QA/QC Consultant

The QA/QC Consultant shall be pre-qualified and approved by the Owner. The QA/QC Consultant shall be a qualified engineering firm with experience in construction quality assurance and quality control, particularly on projects involving similar storage and containment systems. The QA/QC Consultant shall designate an Engineer who is a Professional Engineer registered in the state of the permitting site. The Engineer shall be solely responsible for the QA/QC personnel and their activities, as well as the preparation of a certification report to certify the project has

The Geomembrane Installer shall designate one representative as the Superintendent, who will represent the Installer on-site and at site meetings. The Superintendent shall be qualified by experience. The Superintendent shall be approved by the Project Manager.

In addition, the Geomembrane Installer shall designate a Master Seamer, who shall not be the Superintendent. The Master Seamer shall be present during all seaming operations and be experienced with extrusion welding, fusion welding, and welding in varying weather conditions.