

# **United States Army Fort Monmouth, New Jersey**



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## **Buildings 80-166 (FTMM-56)**

### **Classification Exception Area**

**U.S. Army Garrison Fort Monmouth, Main Post  
Fort Monmouth, New Jersey**

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**Prepared by**

**BRINKERHOFF**   
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**Brinkerhoff Project No. 09BR116**

**June 2011**



New Jersey Department of Environmental Protection  
Site Remediation Program

**CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION AREA  
(CEA/WRA) PERMIT FACT SHEET**

☐ Non-LSRP (Existing Cases) ☐ LSRP ☒ Subsurface Evaluator

Date Stamp  
(For Department use only)

**SECTION A. CASE INFORMATION**

Case Name: Building 80-166 (FTMM-56)

Case ID/Case Number: 94-06-16-1127-25 Preferred ID (PI Number):

**CEA Component Information**

1. **Contaminant(s):** This CEA/WRA applies only to the contaminants above the applicable numeric values established by Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C, listed in the table below. List below the maximum value for all contaminants included in Exhibit A using any well or sampling point used to establish the CEA.

| Contaminant | Concentration <sup>(1)</sup> | GWQS <sup>(2)</sup> | SWQS <sup>(3)</sup> | GWSL <sup>(4)</sup> |
|-------------|------------------------------|---------------------|---------------------|---------------------|
| Chlordane   | 7.52                         | 0.5                 | N/A                 | N/A                 |
| Lead        | 6.43                         | 5                   | N/A                 | N/A                 |
|             |                              |                     |                     |                     |
|             |                              |                     |                     |                     |
|             |                              |                     |                     |                     |

Notes: <sup>(1)</sup> Maximum concentration in Micrograms Per Liter

<sup>(2)</sup> New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C

<sup>(3)</sup> Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body. SWQS are human health based criteria.

<sup>(4)</sup> Ground Water Screening Levels from most current NJDEP Vapor Intrusion Guidance

☐ If attaching an Addendum to list additional contaminants and associated information.

☒ **Exhibit A: Monitor Well/Sampling Point Data** – Per N.J.A.C 7:26E-8.3(b) submit a copy of a table that includes the most recent 24 months of ground water sampling.

2. **CEA Boundaries:**

**Lot(s) and Block(s) included in the areal extent of the Classification Exception Area:**

Year of tax map used: 2005

| Block(s)      | Lot(s) | Check if off-site        |
|---------------|--------|--------------------------|
| Oceanport 105 | 1      | <input type="checkbox"/> |
|               |        | <input type="checkbox"/> |
|               |        | <input type="checkbox"/> |
|               |        | <input type="checkbox"/> |
|               |        | <input type="checkbox"/> |

| Block(s) | Lot(s) | Check if off-site        |
|----------|--------|--------------------------|
|          |        | <input type="checkbox"/> |
|          |        | <input type="checkbox"/> |
|          |        | <input type="checkbox"/> |
|          |        | <input type="checkbox"/> |
|          |        | <input type="checkbox"/> |

☐ If attaching an Addendum to list additional Blocks/Lots and associated information.

☒ **Exhibit B: Site Location Maps** – USGS Quadrangle Map and Tax Lot and Block Map (N.J.A.C. 7:26E-8.3(b)3i and ii)

☒ **Exhibit C: Site Map(s) and Cross Section** – Including actual/predicted contaminant isopleths, ground water flow direction, CEA boundary, monitor well/sampling point/boring locations/IDs, area(s) of concern. N.J.A.C 7:26E-8.3(b)3iii through v.

Insert NAICS responsible for area(s) of concern, if known:

Narrative description of proposed CEA:

The vertical extent of the CEA includes the shallow part of the aquifer beneath the site and extends from the water table to approx. 20 feet bgs, which represents the total depth of the contaminated wells at the site. The horizontal extent of the CEA is defined by the combined extent of chlordane and lead.

Name of the affected Geologic Formation/Unit: Navesink - Hornerstown

Direction of ground water flow: S-SE

Ground Water Classification: II-A

| Vertical Depth of CEA (ft bgs and msl) | Horizontal Extent of CEA (acres or square ft) |
|----------------------------------------|-----------------------------------------------|
| ~20 feet bgs (~0 feet msl)             | 48,091 square feet (1.10 acres)               |

☒ **Exhibit D: Vertical Contaminant Data** – A table, for the most recent 24 months of data, for each sampling point used to establish the CEA, or the subset of wells indicated in N.J.A.C. 7:26E-8.3(b)3iii, iv and v, that includes the following:

**Depth (in feet bgs and msl elevation) to:**

| Water Table | Approximate Bottom of Plume <sup>(5)</sup> | Top of Plume <sup>(6)</sup> | Thickness of Clean Water Lens <sup>(6)</sup> |
|-------------|--------------------------------------------|-----------------------------|----------------------------------------------|
|-------------|--------------------------------------------|-----------------------------|----------------------------------------------|

Notes: <sup>(5)</sup> Approximate maximum depth of contamination based on data included in Remedial Investigation Report (RIR);  
<sup>(6)</sup> Required only if plume is known to be below the water table based on vertical profiling or monitor well data in RIR.

**Exhibit E: Fate and Transport Description and Model Documentation**

- ☐ Historic Fill exemption  
☒ All information required pursuant to N.J.A.C. 7:26E-8.3(b)2 and applicable guidance is included.

**3. Projected Term of CEA:** Based on modeling/calculations in Exhibit E

Proposed Duration in Years: Indeterminate

**SECTION B. CURRENT AND PROJECTED GROUND WATER USE DOCUMENTATION**

☒ **Exhibit F: Well Search Results** – Include most recent well search per N.J.A.C. 7:26E-1.17.

Check each item where, pursuant to N.J.A.C. 7:26E-8.3(b)4, written documentation was obtained regarding future ground water use for a 25-year planning horizon based on:

- ☒ Municipal master plans  
☒ Zoning plans  
☒ Local water purveyor plans and planning data pertaining to the existence of water lines and proposed future installation of water lines  
☒ Local planning officials  
☒ County and local boards of health  
☒ Local and/or county ordinances restricting installation of potable wells

**SECTION C. WELL RESTRICTION INFORMATION**

For Class II-A ground water and pursuant to the GWQS at N.J.A.C. 7:9C-1.6(d), where ground water quality data indicate contaminants exceed the values listed in the Primary Drinking Water Regulations, the Department shall restrict, or require the restriction of, potable ground water uses within any CEA. Therefore, the CEA established for this site is also a Well Restriction Area, the extent of which coincides with the boundaries of the CEA.

Well Restrictions set within the boundaries of the CEA:

- ☒ Double Case Wells  
☒ Sample Potable Wells  
☒ Evaluate Production Wells  
☐ Other

Notify Department that letters were sent per N.J.A.C. 7:26E-8.3(b)5 (check all applicable categories):

- ☐ **Exhibit G: List of Names and Addresses** – Include all persons notified pursuant to N.J.A.C. 7:26E-8.3(b) based on the proposed CEA extent.

[illegible]

**SECTION E. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM**

*I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.*

|                                                                 |                                |
|-----------------------------------------------------------------|--------------------------------|
| Name: _____                                                     | UST Cert. No.: _____           |
| Firm: _____                                                     | Firm's UST Cert. Number: _____ |
| Firm Address: _____                                             |                                |
| City/Town: _____                                                | State: _____ Zip Code: _____   |
| Phone Number: _____                                             | Ext: _____ Fax: _____          |
| Signature: _____                                                | Date: _____                    |
| <b>No Changes Since Last Submittal</b> <input type="checkbox"/> |                                |

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice  
New Jersey Department of Environmental Protection  
Site Remediation Program  
401 East State Street  
PO Box 420  
Mail Code 401-05  
Trenton, NJ 08625

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## **Exhibit A**

### **Monitoring Well/Sampling Point Data**

## EXHIBIT A

### 1.0 INTRODUCTION

This report discusses current ground water conditions and presents a ground water Classification Exception Area (CEA) for the Buildings 80-166, known as the FTMM-56 area, in Oceanport, Monmouth County, New Jersey (hereinafter referred to as the Site).

The work recently completed consisted of analyzing the historical ground water quality database to evaluate trends, reviewing the most recent ground water sample collection (4<sup>th</sup> Quarter 2009 to 3<sup>rd</sup> Quarter 2010) to select the constituents of potential concern (COPCs) at the Site (the constituents with concentrations exceeding the New Jersey Department of Environmental Protection [NJDEP] Ground Water Quality Standards [GWQS]), model the ground water fate and transport of COPCs to determine CEA duration, as well as to predict the future extent of the CEA.

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) completed this work in accordance with current NJDEP guidelines, specifically the procedures described in the *Final Guidance on Designation of CEAs* and the *Technical Requirements for Site Remediation (Technical Requirements)*, New Jersey Administrative Code (N.J.A.C.) 7:26E-8.4, last amended on November 4, 2009.

The following sections of this report provide the information required to define the CEA for the Site. Included are the following:

- A description of subsurface stratigraphic and hydrogeologic conditions on-site;
- A description of the ground water quality at the Site;
- A list of COPCs at the Site known to be present at concentrations greater than the NJDEP GWQS;
- A determination of the horizontal and vertical extent of the CEA;
- A determination of the duration of the CEA;
- A written and mapped description of the CEA, including electronic and paper copies of the map of the CEA compatible with the NJDEP GIS (Geographic Information Systems (NAD [North American Datum] 83);
- An evaluation of the area encompassed by the CEA to determine if the area is a ground water use area as defined by NJDEP; and
- Notification to the appropriate agencies of the intent to establish the CEA.

## **2.0 BACKGROUND**

### **2.1 Site Setting and History**

The Site contains one of the Main Post areas of concern (AOCs) at the Fort Monmouth United States (U.S.) Army installation in Oceanport, Monmouth County, New Jersey. The Site is located in the eastern part of the Main Post at Fort Monmouth, north of Riverside Avenue and south of Building 166, approximately 500 feet northwest of Oceanport Creek. Two Underground Storage Tank (UST) closures have been performed at Site 80/166 as part of the DPW's UST management program. The ground water monitoring program associated with the DPW's UST management program includes six monitoring wells at Site 80/166 that were installed in September 1994 and July 2000.

During the historical investigations performed for the Site, pesticides and metals were constituents of possible concern (COPCs) detected at concentrations exceeding the NJDEP GWQS. Current activities at the FTMM-56 are limited to those relative to the cleanup of the Site under the *Technical Requirements* (N.J.A.C. 7:26E), and consists of long term monitoring of groundwater and surface water.

### **2.2 Monitoring Well/Sampling Point Data**

The Fort Monmouth DPW sampled monitoring wells at the Site from the 4th Quarter of 2008 through the 3rd Quarter of 2010. Analyses of this data can be found in the Remedial Action Progress Report (RAPR), Fort Monmouth, New Jersey, prepared in 2011 by Tetra Tech EM, Inc.

Recent (September 2008 - September 2010) measured concentrations of metals - antimony, arsenic, beryllium and lead, and of pesticides - chlordane, exceeded the NJDEP GWQS. Table A-1, located within this Exhibit, provides a ground water exceedance summary for the 4<sup>th</sup> Quarter of 2008 to the 3<sup>rd</sup> Quarter of 2010.

#### **2.2.1 Metals**

Four metals (antimony, arsenic, beryllium and lead) were detected in ground water at the Site during the August 2010 sampling event at concentrations exceeding NJDEP GWQS. These metals and their concentrations are presented on Table C-1 located within Exhibit C. Antimony exceeds the NJDEP GWQS of 6 micrograms per liter (ug/L) at all of the wells (Exhibit C, Figure C-2), while arsenic shows only four exceedances (22.48, 5.14, 12.84 and 3.94 ug/L) of the NJDEP GWQS of 3 ug/L at wells 80MW01, 80MW04, 80MW05, and 166MW01 (Exhibit C, Figure C-3), beryllium shows only one exceedance (2.42 ug/L) of the NJDEP GWQS of 1 ug/L at well 80MW02 (Exhibit C, Figure C-4), and lead shows only two exceedances (6.43 and 5.15 ug/L) of NJDEP GWQS of 5 ug/L at wells 80MW01 and 80MW05 (Exhibit C, Figure C-5).

Metals are known to migrate slowly and not degrade. Metals in ground water throughout Fort Monmouth were evaluated using statistical analyses and published literature

information (Brinkerhoff, 2011*Background Metals Evaluation*). It was concluded that the metals detections in ground water are likely a combination of a natural dissolved component along with input from sample turbidity. Furthermore, due to the interference from sample turbidity, exceedances of the GWQS by actual dissolved-phase metals are not certain.

The presence of antimony, arsenic and beryllium at the Site is attributed to naturally occurring background conditions. Therefore, they are not considered contaminants of concern, and are not included in the CEA application.

Due to its common industrial use, the source of lead is less certain, and therefore it remains a COPC and is included in this CEA. Based on the findings of Brinkerhoff's Background Metals Evaluation, modeling of the metals is not practical, and the CEA time-frame is therefore indeterminate. (Refer to the Background Metals Evaluation prepared by Brinkerhoff in 2011 for more information.)

### **2.2.2 Pesticides**

In the August 2010 sampling event, chlordane was detected in ground water at the Site at concentrations exceeding NJDEP GWQS (Exhibit C, Table C-2 and Figure C-7), and was included in the CEA application.

Historical data for chlordane was analyzed (Exhibit C, Figure C-6 and Figure C-8) to evaluate Site-specific depletion.

The September 2010 concentrations for chlordane were used to generate the September 2010 CEA extent, as well as to calibrate the MODFLOW-MT3D fate and transport model. The March 2008 maximum chlordane measured data was used as initial concentrations in the MODFLOW-MT3D model and the historical chlordane data was used to determine the CEA extent variation with time and the CEA duration.

## **2.3 Regional Geology and Hydrogeology**

The Site is situated within the New Jersey Coastal Plain Province (Zapczka 1989) at an elevation of approximately 20 feet above mean sea level (United States Geological Survey [USGS] 1995). Oceanport Creek is located approximately 500 feet southeast of the Site. Oceanport Creek is tidally influenced and classified as a wetland by the U.S. Fish & Wildlife Service National Wetlands Inventory (Directorate of Public Works (DPW) Environmental Office 1997).

Previous geologic investigations prepared for the Site have described the underlying shallow unconsolidated deposits below ground surface (bgs) as "predominantly derived from deltaic, shallow marine, and continental shelf environments", consisting of "clay, silt, sand, and gravel" (DPW Environmental Office 1997). The Soil Survey of Monmouth County classified most of the soil on the Main Post as urban land (developed land with disturbed soils) and labeled the soil as Udorthent soils, which are soils altered

by excavating or filling. The small portion of the Main Post, which is otherwise classified, includes a mixture of soil types (loam, clay, sandy loam, etc.) and has low to moderate permeability and is poorly-to-well-drained.

Exhibit C, Figure C-9 illustrates a generalized geologic cross section at the Site, using well construction information (Exhibit C, Table C-3). The Navesink Formation and Hornerstown Sand is a Class II-A aquifer and is sampled at the Site from the water table to a depth of approximately 20 feet bgs. Therefore, the total aquifer thickness beneath the Site is considered to be approximately 20 feet (total depth of the wells).

As can be observed from Exhibit C, Tables C-1 and C-2, the impacted wells at the Site are the shallow wells screened at a maximum of 20 feet bgs. The water table occurs at a depth ranging from approximately 2 to 4 feet bgs (Exhibit C, Table C-3). The flow in this aquifer beneath the Site is towards the Oceanport Creek, as shown by the ground water elevation contours (Exhibit C, Figure C-10) prepared for the September 2010 sampling event at the Site.

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**4th Quarter 2008**

| Notes: | Well ID | Date Collected | 4,4'-DDD          | 4,4'-DDE          | Antimony          | Arsenic           | Beryllium         |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | <i>0.1</i>        | <i>0.1</i>        | <i>6</i>          | <i>3</i>          | <i>1</i>          |
|        | 80MW01  | 12/31/2008     | ND                | 0.1039            | 3.57 ER           | ND                | ND                |
|        | 80MW02  | 12/31/2008     | ND                | ND                | ND                | 4.98 ER           | 2.51              |
|        | 80MW03  | 12/30/2008     | ND                | ND                | ND                | 4.21 ER           | ND                |
|        | 80MW04  | 12/30/2008     | ND                | ND                | ND                | ND                | 0.148 ER          |
|        | 80MW05  | 12/30/2008     | ND                | ND                | ND                | 8.74              | ND                |
|        | 166MW01 | 12/31/2008     | NA                | NA                | NA                | 4.94 ER           | NA                |
| D      | 166MW01 | 12/31/2008     | NA                | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**4th Quarter 2008**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
|        | 80MW01  | 12/31/2008     | ND                | NA                | ND                | ND                |
|        | 80MW02  | 12/31/2008     | 1.26 ER           | NA                | ND                | ND                |
|        | 80MW03  | 12/30/2008     | 0.263 ER          | NA                | ND                | ND                |
|        | 80MW04  | 12/30/2008     | 0.528 ER          | NA                | ND                | ND                |
|        | 80MW05  | 12/30/2008     | 4.85              | NA                | ND                | ND                |
|        | 166MW01 | 12/31/2008     | NA                | NA                | ND                | NA                |
| D      | 166MW01 | 12/31/2008     | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**1st Quarter 2009**

| Notes | Well ID | Date Collected | 4,4'-DDD          | 4,4'-DDE          | Antimony          | Arsenic           | Beryllium         |
|-------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|       |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|       |         |                | <i>0.1</i>        | <i>0.1</i>        | <i>6</i>          | <i>3</i>          | <i>1</i>          |
|       | 80MW01  | 2/9/2009       | ND                | ND                | ND                | ND                | ND                |
|       | 80MW02  | 2/9/2009       | ND                | ND                | ND                | ND                | 1.91 ER           |
|       | 80MW03  | 2/9/2009       | ND                | ND                | ND                | ND                | ND                |
|       | 80MW04  | 2/9/2009       | ND                | ND                | ND                | ND                | ND                |
|       | 80MW05  | 2/9/2009       | ND                | ND                | ND                | ND                | ND                |
| D     | 166MW01 | 2/9/2009       | NA                | NA                | NA                | ND                | NA                |
|       | 166MW01 | 2/9/2009       | NA                | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**1st Quarter 2009**

| Notes | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|-------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|       |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|       |         |                | 4                 | 0.5               | 5                 | 2                 |
|       | 80MW01  | 2/9/2009       | ND                | NA                | ND                | 3.81 ER           |
|       | 80MW02  | 2/9/2009       | 1.59 ER           | NA                | ND                | ND                |
|       | 80MW03  | 2/9/2009       | 0.384 ER          | NA                | ND                | 1.91 ER           |
|       | 80MW04  | 2/9/2009       | 0.654 ER          | NA                | ND                | ND                |
|       | 80MW05  | 2/9/2009       | 8.98              | NA                | ND                | ND                |
| D     | 166MW01 | 2/9/2009       | NA                | NA                | ND                | NA                |
|       | 166MW01 | 2/9/2009       | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**2nd Quarter 2009**

| Notes: | Well ID | Date Collected | 4,4'-DDD   | 4,4'-DDE   | Antimony   | Arsenic    | Beryllium  |
|--------|---------|----------------|------------|------------|------------|------------|------------|
|        |         |                | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS |
|        |         |                | 0.1        | 0.1        | 6          | 3          | 1          |
|        | 80MW01  | 6/26/2009      | 0.048      | ND         | 5.49 ER    | 43.9       | ND         |
| D      | 80MW01  | 6/26/2009      | 0.039      | ND         | 2.85 ER    | 46.7       | ND         |
|        | 80MW02  | 6/26/2009      | ND         | ND         | 4.73 ER    | 25.5       | 1.78       |
|        | 80MW03  | 6/26/2009      | ND         | ND         | 4.15 ER    | 32.3       | ND         |
|        | 80MW04  | 6/26/2009      | ND         | ND         | ND         | 22         | 0.105 ER   |
|        | 80MW05  | 6/26/2009      | 0.029      | 0.017      | 1.98 ER    | 53.9       | 9.47       |
|        | 166MW01 | 6/26/2009      | NA         | NA         | NA         | 30.3       | NA         |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**2nd Quarter 2009**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
|        | 80MW01  | 6/26/2009      | 1.34 ER           | NA                | 2.63 ER           | ND                |
| D      | 80MW01  | 6/26/2009      | 1.84 ER           | NA                | 3.37 ER           | ND                |
|        | 80MW02  | 6/26/2009      | 1.20 ER           | 3.22              | 2.92 ER           | ND                |
|        | 80MW03  | 6/26/2009      | 0.383 ER          | NA                | 3.30 ER           | ND                |
|        | 80MW04  | 6/26/2009      | 0.333 ER          | NA                | ND                | ND                |
|        | 80MW05  | 6/26/2009      | 193               | NA                | 28.4              | ND                |
|        | 166MW01 | 6/26/2009      | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**3rd Quarter 2009**

| Notes: | Well ID | Date Collected | 4,4'-DDD   | 4,4'-DDE   | Antimony   | Arsenic    | Beryllium  |
|--------|---------|----------------|------------|------------|------------|------------|------------|
|        |         |                | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS |
|        |         |                | 0.1        | 0.1        | 6          | 3          | 1          |
|        | 80MW01  | 8/20/2009      | 0.0691     | ND         | 9.15 ER    | 63.7       | 0.057 ER   |
| D      | 80MW01  | 8/20/2009      | 0.0891     | ND         | 9.89 ER    | 61.3       | 0.06 ER    |
|        | 80MW02  | 8/20/2009      | ND         | ND         | ND         | 21.4       | 1.88       |
|        | 80MW03  | 8/20/2009      | ND         | ND         | 10.5       | 34.3       | 0.098 ER   |
|        | 80MW04  | 8/20/2009      | ND         | ND         | ND         | 17.6       | 0.119 ER   |
|        | 80MW05  | 8/20/2009      | ND         | ND         | 6.91 ER    | 29.5       | 0.143 ER   |
|        | 166MW01 | 8/20/2009      | NA         | NA         | NA         | 33.9       | NA         |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**3rd Quarter 2009**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
|        | 80MW01  | 8/20/2009      | 8.53              | ND                | 7.53              | ND                |
| D      | 80MW01  | 8/20/2009      | 7.79              | ND                | 8.83              | ND                |
|        | 80MW02  | 8/20/2009      | 1.00 ER           | 2.121             | 2.82 ER           | ND                |
|        | 80MW03  | 8/20/2009      | ND                | ND                | 7.01              | ND                |
|        | 80MW04  | 8/20/2009      | ND                | ND                | ND                | ND                |
|        | 80MW05  | 8/20/2009      | 5.16              | ND                | ND                | ND                |
|        | 166MW01 | 8/20/2009      | NA                | NA                | 7.25              | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**4th Quarter 2009**

| Notes: | Well ID | Date Collected | 4,4'-DDD          | 4,4'-DDE          | Antimony          | Arsenic           | Beryllium         |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | <i>0.1</i>        | <i>0.1</i>        | <i>6</i>          | <i>3</i>          | <i>1</i>          |
|        | 80MW01  | 11/10/2009     | 0.852             | ND                | ND                | 11.2              | ND                |
|        | 80MW02  | 11/10/2009     | ND                | ND                | ND                | 2.33 ER           | 2.19              |
|        | 80MW03  | 11/10/2009     | ND                | ND                | ND                | 6.53              | ND                |
| D      | 80MW03  | 11/10/2009     | ND                | ND                | ND                | 3.29 ER           | ND                |
|        | 80MW04  | 11/10/2009     | ND                | ND                | ND                | 2.18 ER           | ND                |
|        | 80MW05  | 11/10/2009     | 0.015             | ND                | ND                | 22.62             | 0.111 ER          |
|        | 166MW01 | 11/10/2009     | NA                | NA                | NA                | 2.76 ER           | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**4th Quarter 2009**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
|        | 80MW01  | 11/10/2009     | ND                | ND                | ND                | ND                |
|        | 80MW02  | 11/10/2009     | 0.665 ER          | 7.604             | ND                | ND                |
|        | 80MW03  | 11/10/2009     | ND                | ND                | ND                | ND                |
| D      | 80MW03  | 11/10/2009     | ND                | ND                | ND                | ND                |
|        | 80MW04  | 11/10/2009     | ND                | ND                | ND                | ND                |
|        | 80MW05  | 11/10/2009     | 13                | ND                | 9.32              | ND                |
|        | 166MW01 | 11/10/2009     | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**1st Quarter 2010**

| Notes: | Well ID | Date Collected | 4,4'-DDD          | 4,4'-DDE          | Antimony          | Arsenic           | Beryllium         |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | <i>0.1</i>        | <i>0.1</i>        | <i>6</i>          | <i>3</i>          | <i>1</i>          |
| LF     | 80MW01  | 3/23/2010      | 0.0173            | ND                | 8.19 ER           | 6.55              | ND                |
| LF     | 80MW02  | 3/23/2010      | ND                | ND                | 7.57 ER           | 1.73 ER           | 1.14              |
| LF, D  | 80MW03  | 3/23/2010      | ND                | ND                | 10.8              | 1.72 ER           | ND                |
| LF     | 80MW03  | 3/23/2010      | ND                | ND                | 10.9              | 1.01 ER           | ND                |
| LF     | 80MW04  | 3/23/2010      | ND                | ND                | 10.5              | 0.940 ER          | ND                |
| LF     | 80MW05  | 3/23/2010      | ND                | ND                | 11.6              | 4.58 ER           | ND                |
| LF     | 166MW01 | 3/24/2010      | NA                | NA                | NA                | 1.31 ER           | NA                |
| LF, D  | 166MW01 | 3/24/2010      | NA                | NA                | NA                | 1.47 ER           | NA                |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**1st Quarter 2010**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
| LF     | 80MW01  | 3/23/2010      | 2.35              | ND                | 4.57 ER           | ND                |
| LF     | 80MW02  | 3/23/2010      | 0.515 ER          | 4.268             | ND                | ND                |
| LF, D  | 80MW03  | 3/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW03  | 3/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW04  | 3/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW05  | 3/23/2010      | 1.62 ER           | ND                | 2.96 ER           | ND                |
| LF     | 166MW01 | 3/24/2010      | NA                | NA                | NA                | NA                |
| LF, D  | 166MW01 | 3/24/2010      | NA                | NA                | NA                | NA                |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**2nd Quarter 2010**

| Notes: | Well ID | Date Collected | 4,4'-DDD   | 4,4'-DDE   | Antimony   | Arsenic    | Beryllium  |
|--------|---------|----------------|------------|------------|------------|------------|------------|
|        |         |                | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS | NJDEP GWQS |
|        |         |                | 0.1        | 0.1        | 6          | 3          | 1          |
| LF     | 80MW01  | 6/23/2010      | 0.026      | ND         | 13.8       | 9.71       | 0.051 ER   |
| LF     | 80MW02  | 6/23/2010      | ND         | ND         | 9.00 ER    | 0.980 ER   | 1.23       |
| LF, D  | 80MW03  | 6/23/2010      | ND         | ND         | 10.6       | 0.830 ER   | ND         |
| LF     | 80MW03  | 6/23/2010      | ND         | ND         | 8.63 ER    | 1.03 ER    | ND         |
| LF     | 80MW04  | 6/23/2010      | ND         | ND         | 9.18 ER    | 3.78 ER    | 0.054 ER   |
| LF     | 80MW05  | 6/23/2010      | ND         | ND         | 8.30 ER    | 12.66      | ND         |
| LF     | 166MW01 | 6/23/2010      | NA         | NA         | NA         | 2.71 ER    | NA         |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**2nd Quarter 2010**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
| LF     | 80MW01  | 6/23/2010      | 1.71 ER           | ND                | 3.00 ER           | ND                |
| LF     | 80MW02  | 6/23/2010      | 0.696 ER          | 5.88              | ND                | ND                |
| LF, D  | 80MW03  | 6/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW03  | 6/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW04  | 6/23/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW05  | 6/23/2010      | 1.88 ER           | ND                | 2.70 ER           | ND                |
| LF     | 166MW01 | 6/23/2010      | NA                | NA                | ND                | NA                |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**3rd Quarter 2010**

| Notes: | Well ID | Date Collected | 4,4'-DDD          | 4,4'-DDE          | Antimony          | Arsenic           | Beryllium         |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | <i>0.1</i>        | <i>0.1</i>        | <i>6</i>          | <i>3</i>          | <i>1</i>          |
| LF     | 80MW01  | 8/31/2010      | 0.018             | ND                | 19.7              | 22.48             | ND                |
| LF     | 80MW02  | 8/31/2010      | ND                | ND                | 9.03 ER           | 1.26 ER           | 2.42              |
| LF     | 80MW03  | 8/31/2010      | ND                | ND                | 12.3              | 1.85 ER           | ND                |
| LF, D  | 80MW03  | 8/31/2010      | ND                | ND                | 10.8              | 2.37 ER           | ND                |
| LF     | 80MW04  | 8/31/2010      | ND                | ND                | 8.29 ER           | 5.14              | 0.088 ER          |
| LF     | 80MW05  | 8/31/2010      | ND                | ND                | 12.6              | 12.84             | 0.066 ER          |
| LF     | 166MW01 | 8/31/2010      | NA                | NA                | NA                | 3.94 ER           | NA                |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

**Table A - 1**  
**Contaminant Isoconcentration Summary Table**  
**Building 80 and 166, Fort Monmouth, NJ**  
**3rd Quarter 2010**

| Notes: | Well ID | Date Collected | Cadmium           | Chlordane         | Lead              | Thallium          |
|--------|---------|----------------|-------------------|-------------------|-------------------|-------------------|
|        |         |                | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> | <i>NJDEP GWQS</i> |
|        |         |                | 4                 | 0.5               | 5                 | 2                 |
| LF     | 80MW01  | 8/31/2010      | 2.00 ER           | ND                | 6.43              | ND                |
| LF     | 80MW02  | 8/31/2010      | 0.600 ER          | 7.52              | ND                | ND                |
| LF     | 80MW03  | 8/31/2010      | ND                | ND                | ND                | ND                |
| LF, D  | 80MW03  | 8/31/2010      | ND                | ND                | ND                | ND                |
| LF     | 80MW04  | 8/31/2010      | ND                | ND                | 2.84 ER           | ND                |
| LF     | 80MW05  | 8/31/2010      | 1.03 ER           | ND                | 5.15              | ND                |
| LF     | 166MW01 | 8/31/2010      | NA                | NA                | 3.40 ER           | NA                |

Notes:

Concentrations reported in µg/L

LF - Monitor Wells Sampled via Low-Flow Method

ND - Non-Detect

NA - Not Analyzed for parameter

D - Duplicate Sample

J - Estimated Result between Reporting Limit and Method Detection Limit for VOCs and Pesticides

ER - Estimated Result between Reporting Limit and Method Detection Limit for metals

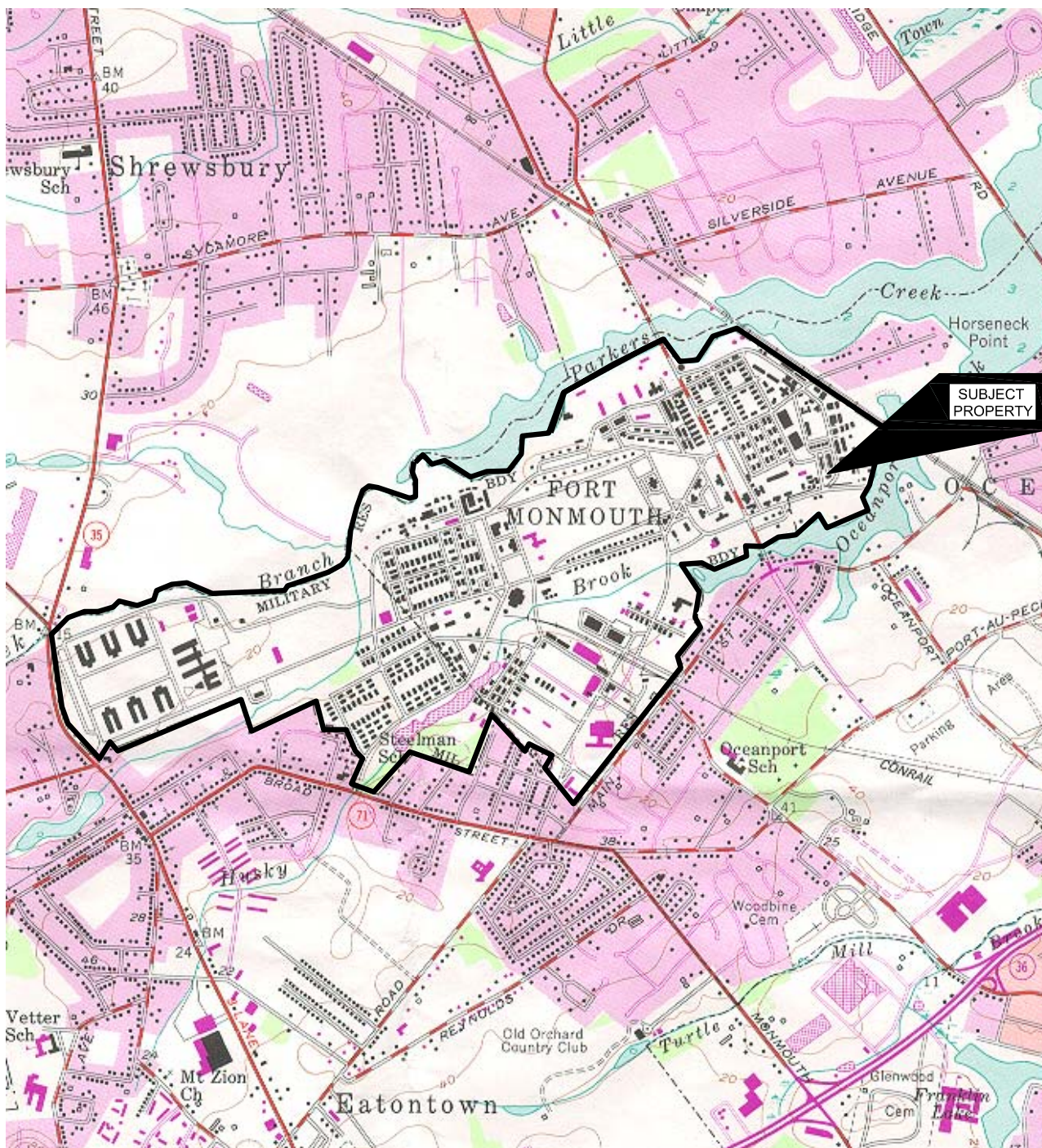
## **Exhibit B**

### **Site Location Maps**

## **EXHIBIT B**

### **1.0 SITE LOCATION MAPS**

Buildings 80-166 are located in Oceanport, Monmouth County, New Jersey (Block 105, Lot 1). Pursuant to N.J.A.C. 7:26E-8.3(b) 3i and ii, Brinkerhoff provided a United States Geological Survey (USGS) Quadrangle Map (Figure B-1) and a Tax Map with Block and Lot (Figure B-2) for Buildings 80-166. Figure B-3 depicts the maximum extent of the CEA at the Site.



0' 1000' 2000'  
SCALE: 1"=2000'

LONG BRANCH, N. J.  
40073-C8-TF-024

1954  
PHOTOREVISED 1981  
DMA 6164 1 SE-SERIES V822



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ENVIRONMENTAL SERVICES, INC.

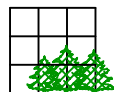


FIGURE B-1  
U.S.G.S. TOPOGRAPHIC LONG BRANCH, NJ QUAD  
US ARMY FORT MONMOUTH  
MAIN POST - 80-166 AREA  
FORT MONMOUTH, NEW JERSEY

DATE: 4/8/11

JOB NO.: 09BR116

SCALE: 1" = 2000'



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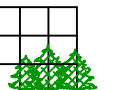
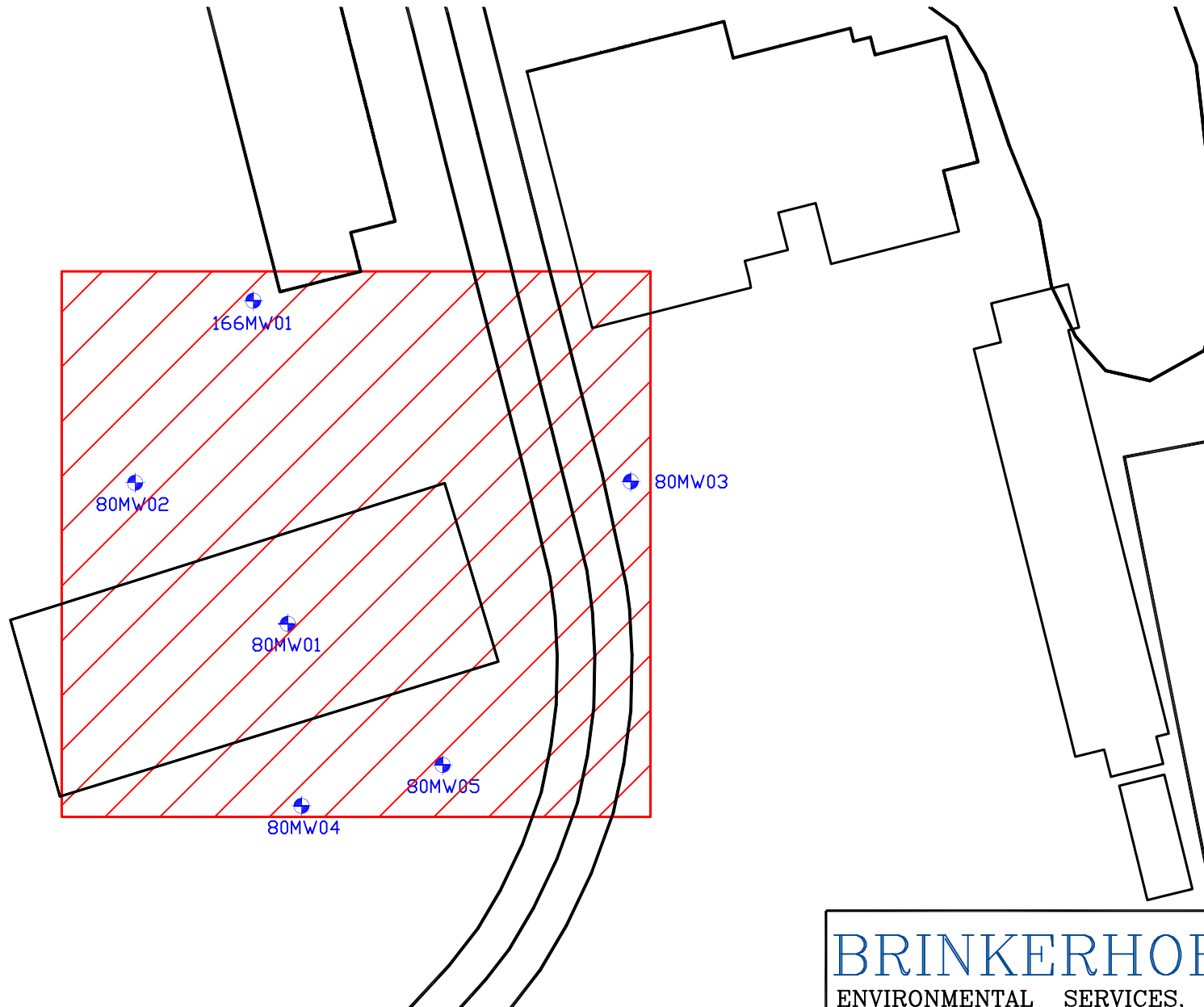


FIGURE B-2 - TAX MAP  
US ARMY FORT MONMOUTH  
MAIN POST - 80-166 AREA  
BLOCK 105, LOT 1  
FORT MONMOUTH, NEW JERSEY

DATE: 4/8/11

JOB NO.: 09BR116

SCALE: 1" = 200'



# LEGEND

-  - MAXIMUM EXTENT OF CEA  
48091.13 SQUARE FEET, 1.10 ACRES
-  - MONITORING WELL LOCATION  
80MW02

0' 30' 60'  
SCALE: 1"=60'

**BRINKERHOFF**  
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FIGURE B-3  
MAXIMUM CEA EXTENT  
US ARMY FORT MONMOUTH  
MAIN POST - 80-166 AREA  
FORT MONMOUTH, NEW JERSEY

DATE: 5/27/11

JOB NO.: 09BR116

SCALE: 1" = 60'

## **Exhibit C**

### **Site Map and Cross Section**

## **EXHIBIT C**

### **1.0 CLASSIFICATION EXCEPTION AREA (CEA) BASIS**

The New Jersey Department of Environmental Protection (NJDEP) requires that the CEA application specify the constituents that will require an exception to the NJDEP's Ground Water Quality Standards (GWQS). These are constituents necessitating the institution of a CEA because they are either currently detected or are anticipated to be detected in the future at concentrations exceeding applicable NJDEP GWQS.

A summary of the site constituents exceeding NJDEP GWQS is provided on Tables C-1 and C-2, provided within this Exhibit. Ground water quality data are collected at the site as part of the long-term monitoring plan. Since the establishment of the CEA is based upon current ground water conditions and the prediction of future ground water conditions, Tables C-1 and C-2 present only the most recent analytical data set from the August 2010 sampling event, which was used to estimate the extent of the CEA. Data from the most recent sampling round (2010) indicate that five constituents, one pesticide and four metals, exceeded NJDEP GWQS.

As presented in Exhibit A of this report, the metals are likely a natural background condition. Therefore, the pesticide (chlordane) is the only constituent fate and transport modeling included in this report is based. Fate and transport modeling results for chlordane are presented at the wells with the highest detected concentrations (Exhibit C, Figure C-8), along with historical measured data. The decreasing 2008 to 2010 modeled results show the fate and transport model calibration, and the year when the concentration in the hot spot decreases below the NJDEP GWQS.

The CEA duration for chlordane is seven years (September 2010 to September 2017). The CEA duration for lead is indeterminate.

### **2.0 EXTENT OF THE CLASSIFICATION EXCEPTION AREA (CEA)**

The vertical extent of the site CEA includes the shallow part of the aquifer beneath the site and it extends from the water table, about seven feet below ground surface (bgs) to approximately 20 feet bgs (Exhibit C, Figure C-9), which represents the total depth of the contaminated wells at the site.

The plan-view map of the current CEA is provided as Exhibit C, Figure C-11. This CEA was determined from the following data:

- The existing monitoring well network and August 2010 data (the shallow wells screened at different elevations in the aquifer beneath the site, about 20 feet bgs); Exhibit C, Figures C-6 and C-7 show the March 2008 and the August 2010 measured chlordane concentration distribution and the plume exceeding NJDEP GWQS, and
- No active remediation.

Exhibit C, Table C-4 and Figure C-12, present the CEA extent variation with time calculated based upon the August 2010 CEA extent and chlordane depletion. As it can be observed from Table C-4 and Figure C-12, the August 2010 CEA extent is varying with time due to the fate and transport mechanisms (no source, advection, dispersion, diffusion, and degradation).

The August 2010 CEA extent, as presented on Exhibit C, Figure C-11, is approximately 0.23 acres.

For the 2012 Biennial Certification Monitoring Report of the Site Ground Water CEA, the September 2010 CEA extent will be updated and the 2010-2012 monitoring data will be used to confirm the fate and transport modeling results.

### **3.0 SITE MAPS AND CROSS SECTIONS**

Pursuant to N.J.A.C. 7:26E-8.3(b) 3iii through v, Brinkerhoff provided the following items in this exhibit (Exhibit C):

- Figure C-1: Site Location Aerial- Classification Exception Area
- Figure C-2: Antimony in GW – 2010 Spatial Distribution
- Figure C-3: Arsenic in GW – 2010 Spatial Distribution
- Figure C-4: Beryllium in GW– 2010 Spatial Distribution
- Figure C-5: Lead in GW – 2010 Spatial Distribution
- Figure C-6: Chlordane in GW – 2008 Spatial Distribution
- Figure C-7: Chlordane in GW – 2010 Spatial Distribution
- Figure C-8: Chlordane in GW – 80MW02 Temporal Distribution
- Figure C-9: Generalized Site Cross-Section
- Figure C-10: GW Elevation Contours and Flow Directions
- Figure C-11: September 2010 CEA Extent
- Figure C-12: CEA Extent Variation with Time



0 500 1000 1500 2000 Feet

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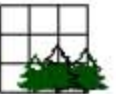
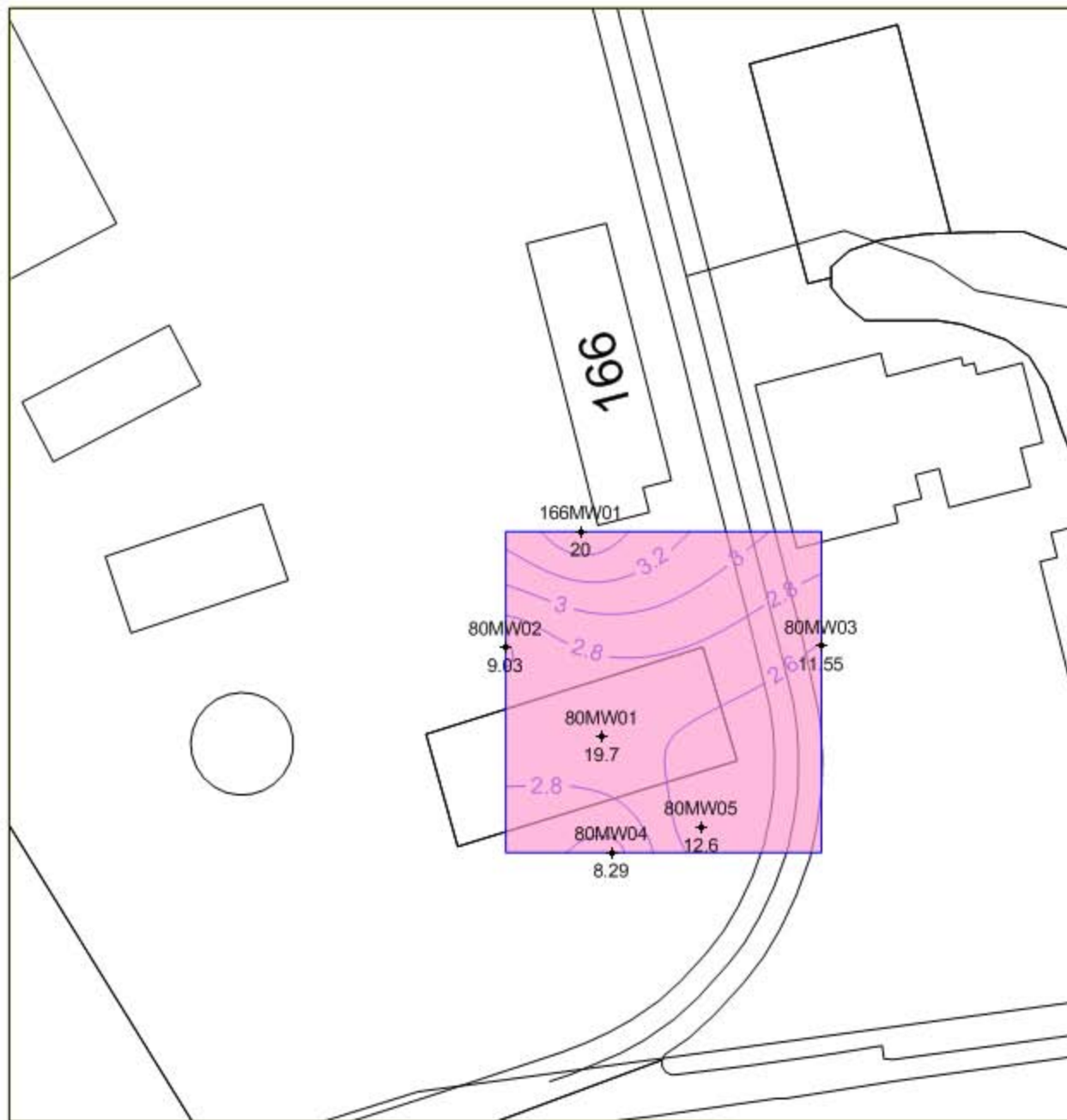


FIGURE - C-1 SITE LOCATION AERIAL  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



Legend:



Antimony 6 ug/L NJDEP GWQS is exceeded in all samples - it is considered background.



Ground Water Elevation Contour - September 2010 measured data.

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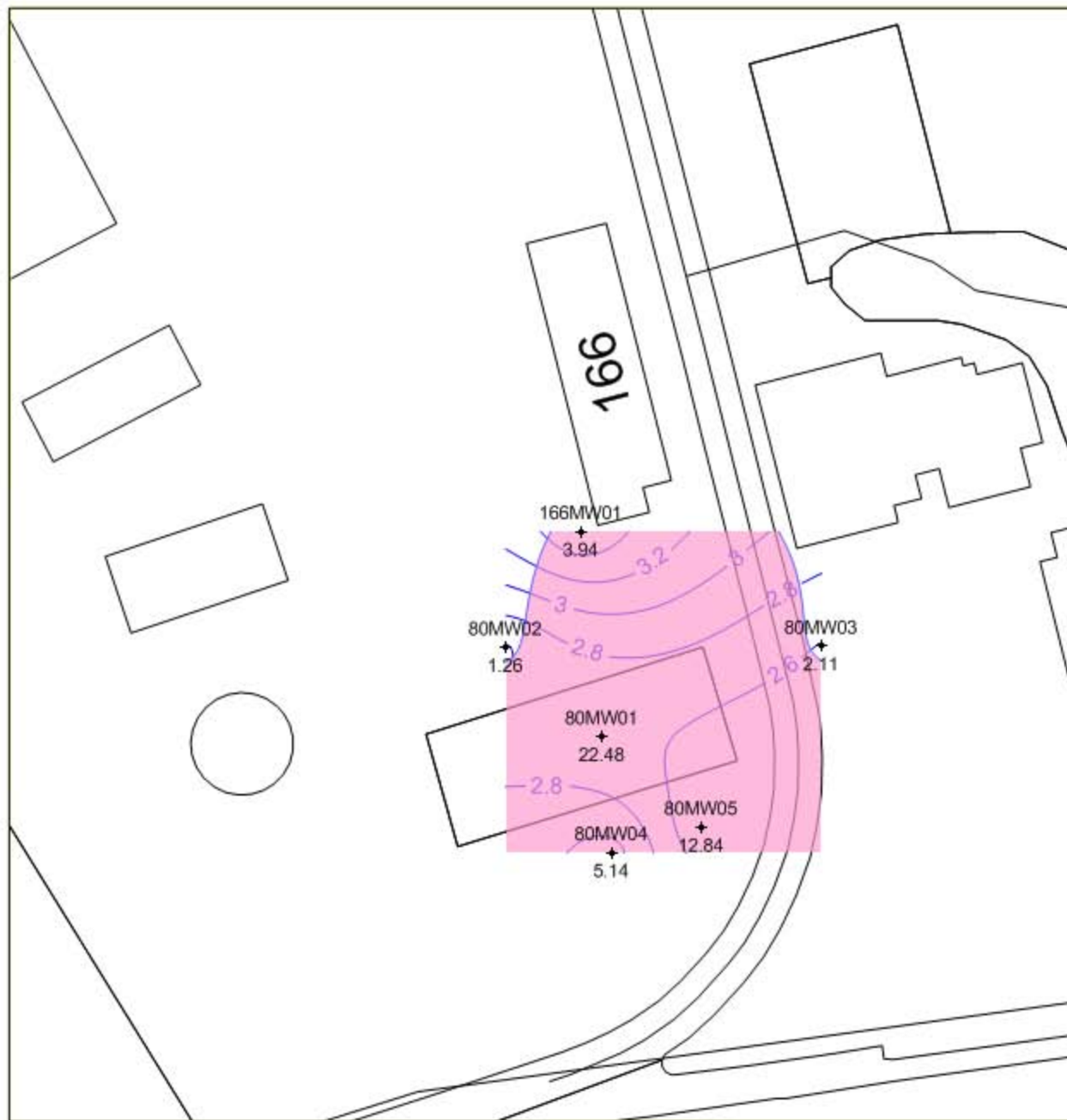


FIGURE C-2 ANTIMONY IN GW - 2010 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



0 100 200 300 400 Feet

#### Legend:



Arsenic 3 ug/L NJDEP GWQS is exceeded in nearly all samples - it is considered background.



Ground Water Elevation Contour - September 2010 measured data.

# BRINKERHOFF

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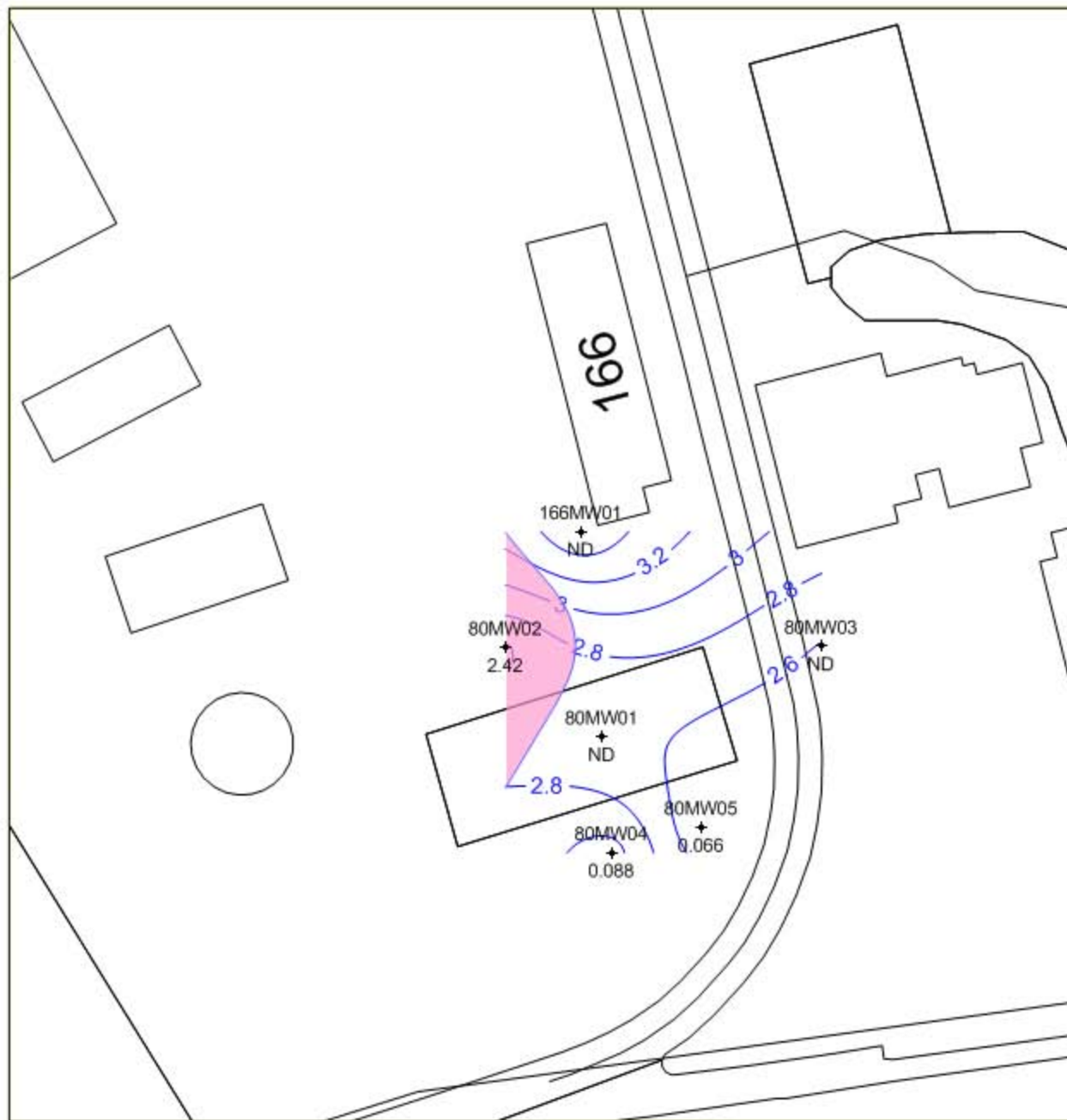


FIGURE C-3 ARSENIC IN GW - 2010 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



0 100 200 300 400 Feet

Legend:



Beryllium 1 ug/L NJDEP GWQS is exceeded in one sample - it is considered background.



Ground Water Elevation Contour - September 2010 measured data.

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

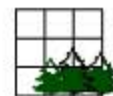
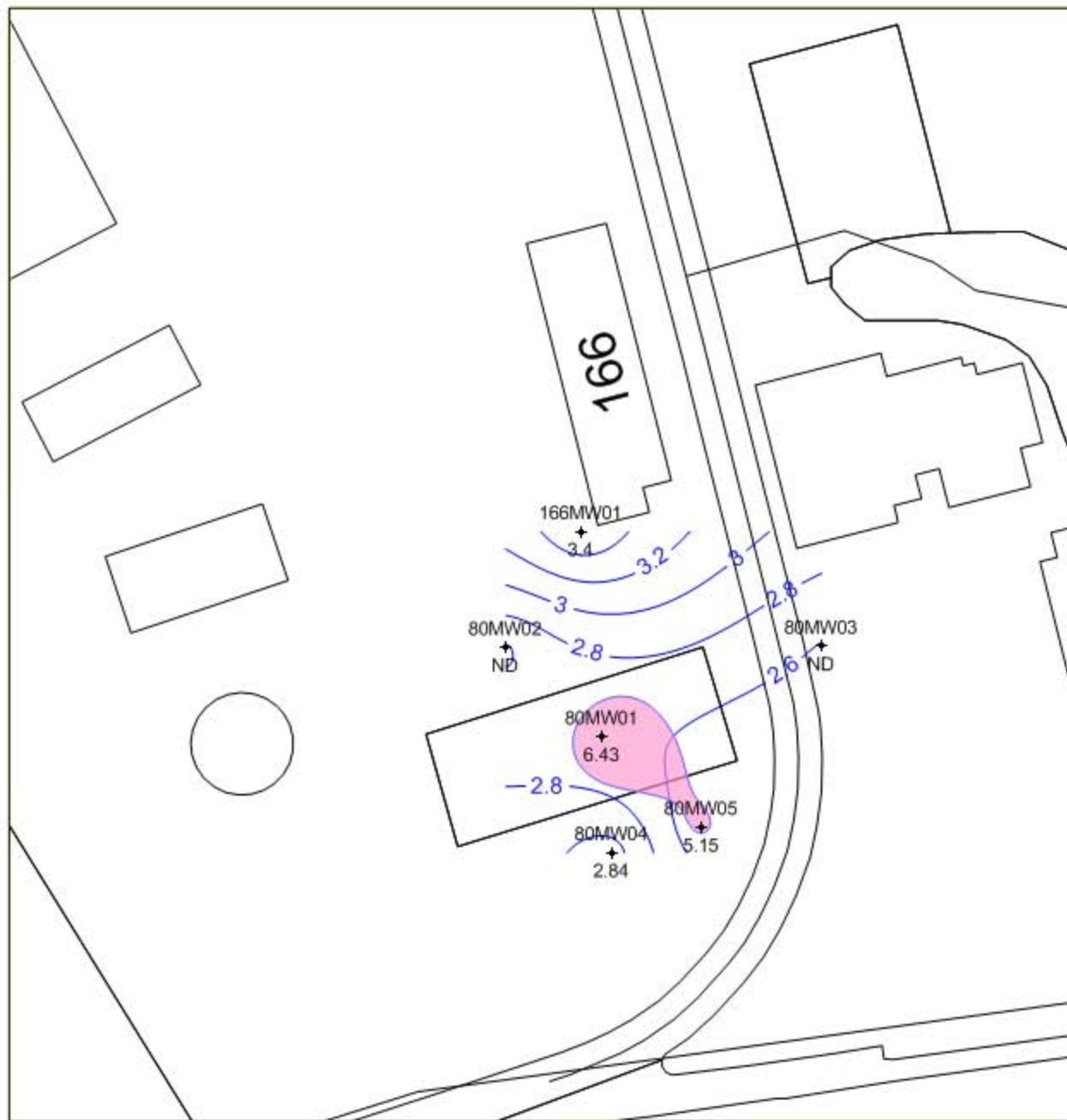


FIGURE C-4 BERYLLIUM IN GW - 2010 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



Legend:



Lead 5 ug/L NJDEP GWQS is exceeded in two samples - it is considered background.



Ground Water Elevation Contour - September 2010 measured data.

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

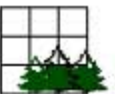
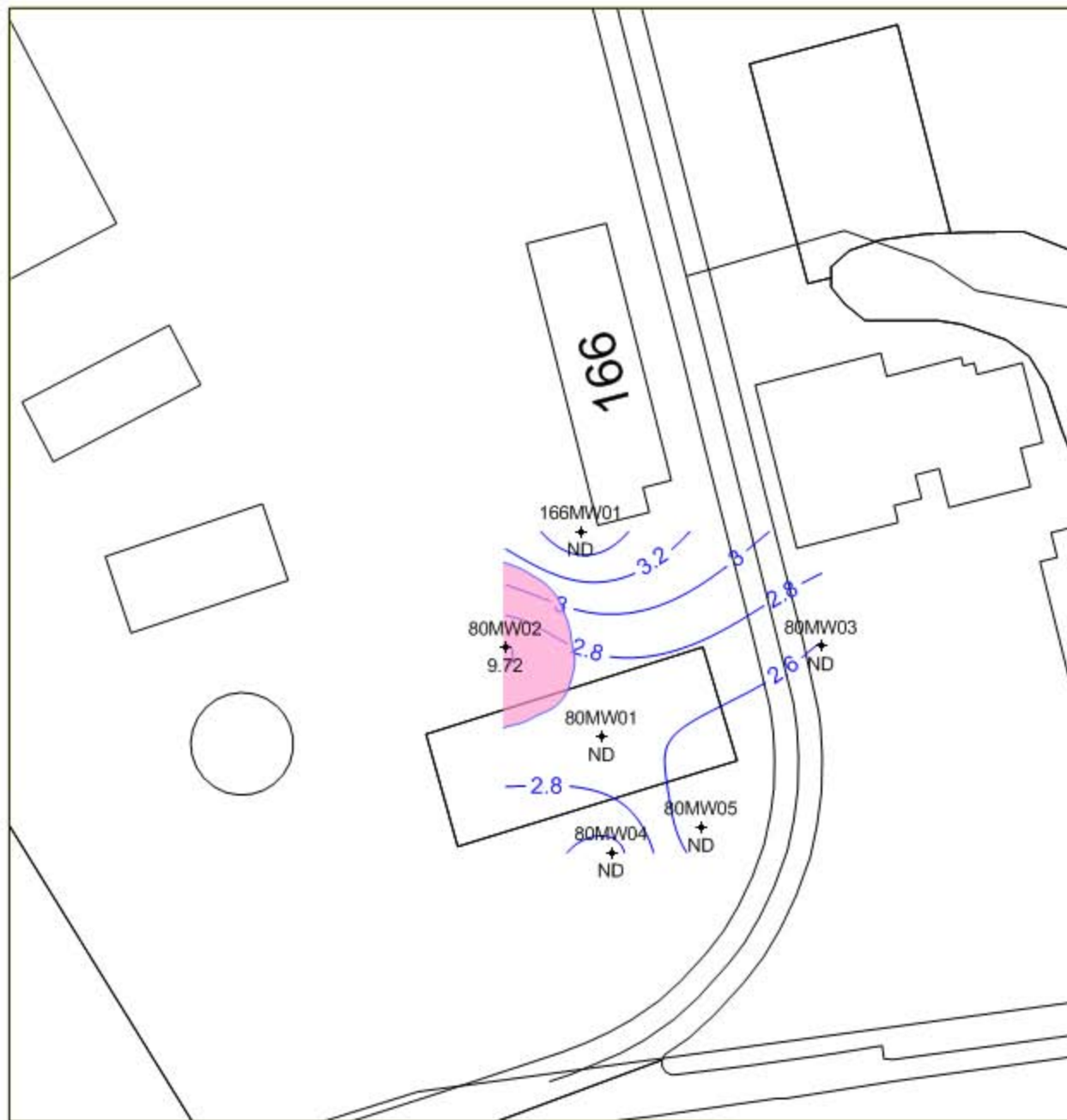


FIGURE C-5 LEAD IN GW - 2010 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



Legend:



March 2008 Chlordane 1 ug/L plume  
(A ~ 12,000 sq. ft.)



Ground Water Elevation Contour - September 2010  
measured data.

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

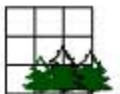
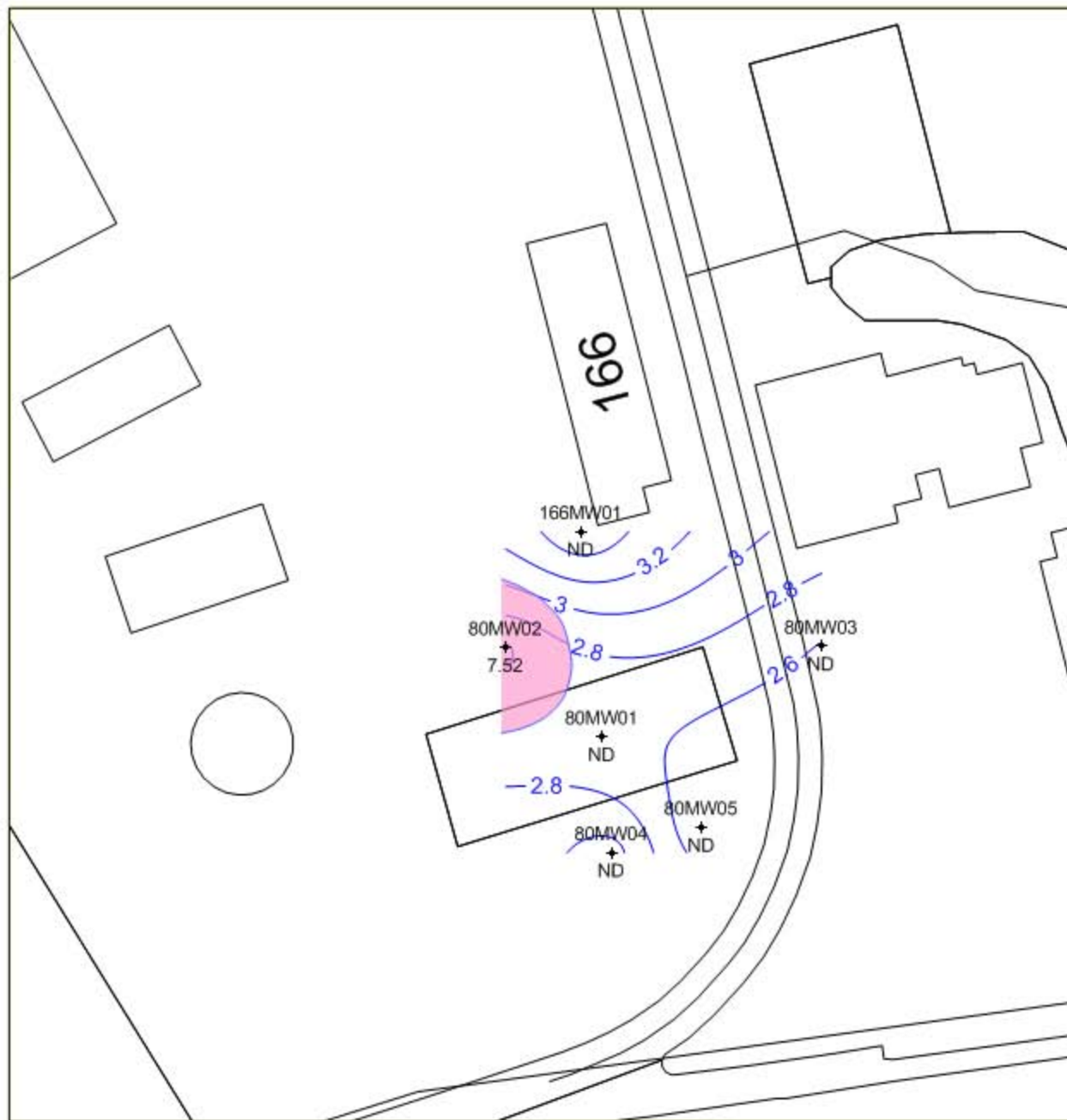


FIGURE C-6 CHLORDANE IN GW - 2008 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



0 100 200 300 400 Feet

Legend:



August 2010 Chlordane 1 ug/L plume  
(A ~ 10,000 sq. ft.)



Ground Water Elevation Contour - September 2010  
measured data.

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

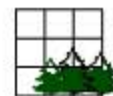
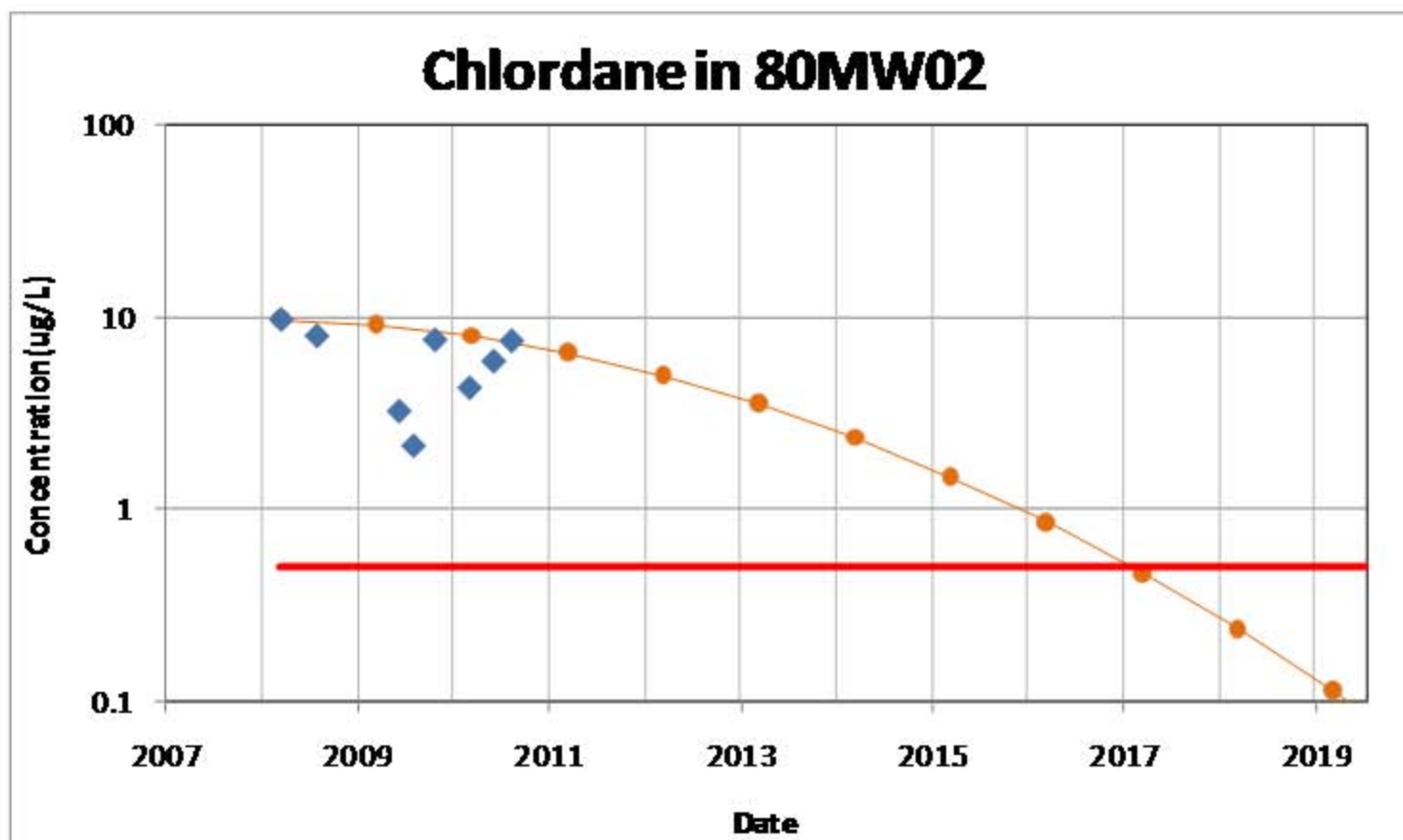


FIGURE C-7 CHLORDANE IN GW - 2010 SPATIAL DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



**BRINKERHOFF**

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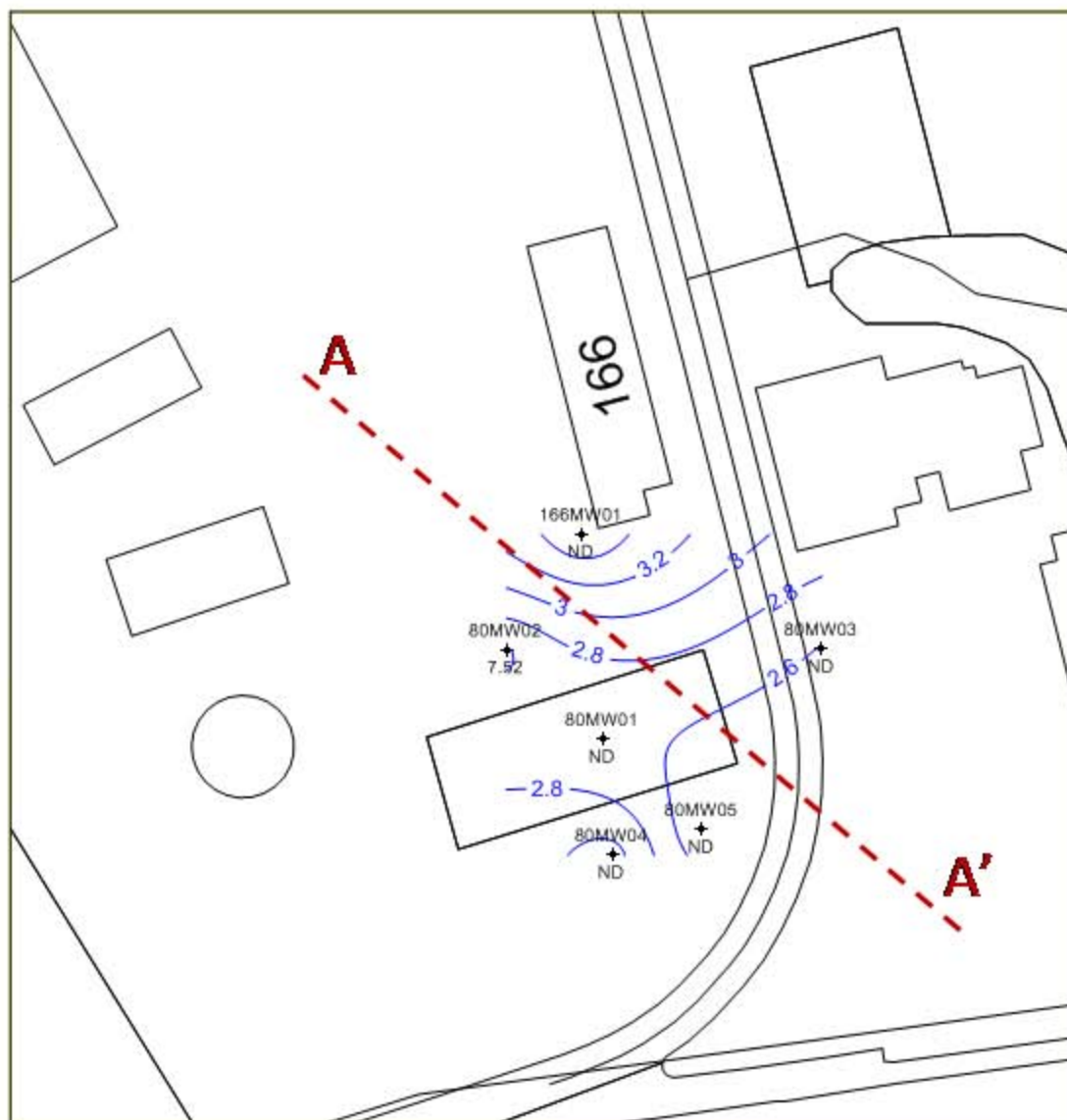
FIGURE C-8 CHLORDANE IN GW - 80MW02 TEMP. DISTRIBUTION  
CLASSIFICATION EXCEPTION AREA

BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - CHARLES WOOD POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

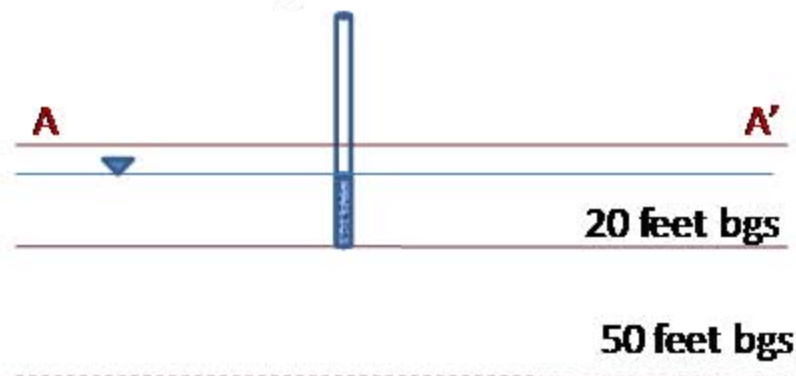
SCALE: SEE MAP



0 100 200 300 400 Feet

## GENERALIZED CROSS-SECTION

### All Bldg 80-166 Wells



**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

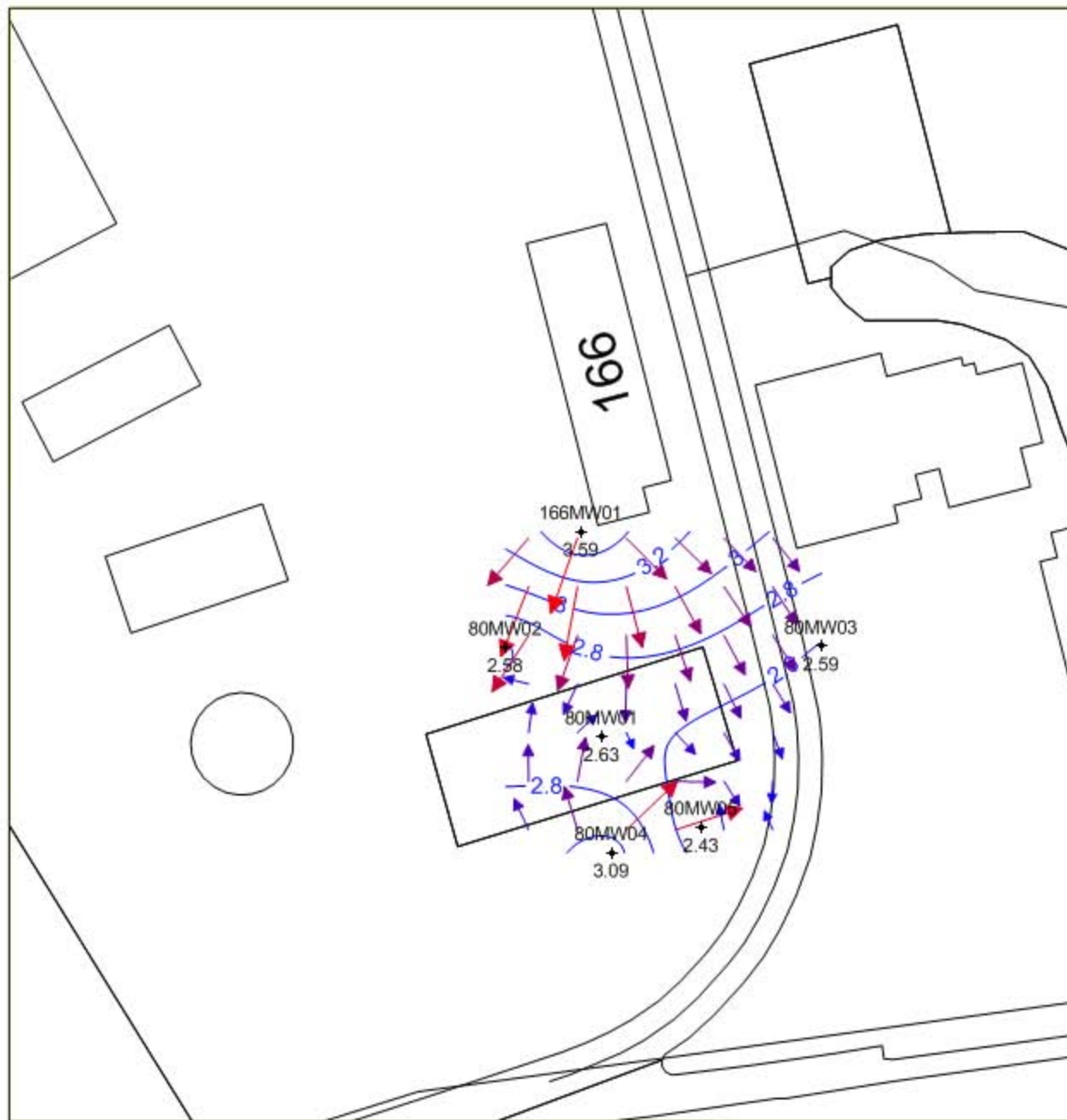


FIGURE C-9 GENERALIZED SITE CROSS-SECTION  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

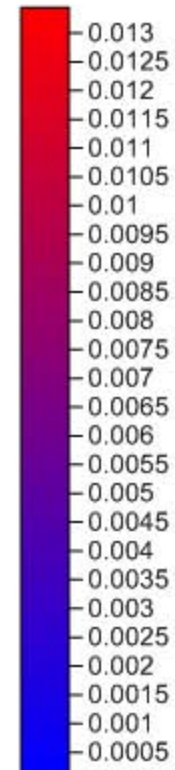
JOB NO.: 09BR116

SCALE: SEE MAP



0 100 200 300 400 Feet

Note:  
September 2010 measured data  
Hydraulic gradient: ~0.0005 to ~0.013 feet/feet



Color scale for hydraulic gradient magnitude

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ENVIRONMENTAL SERVICES, INC.

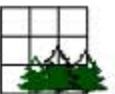
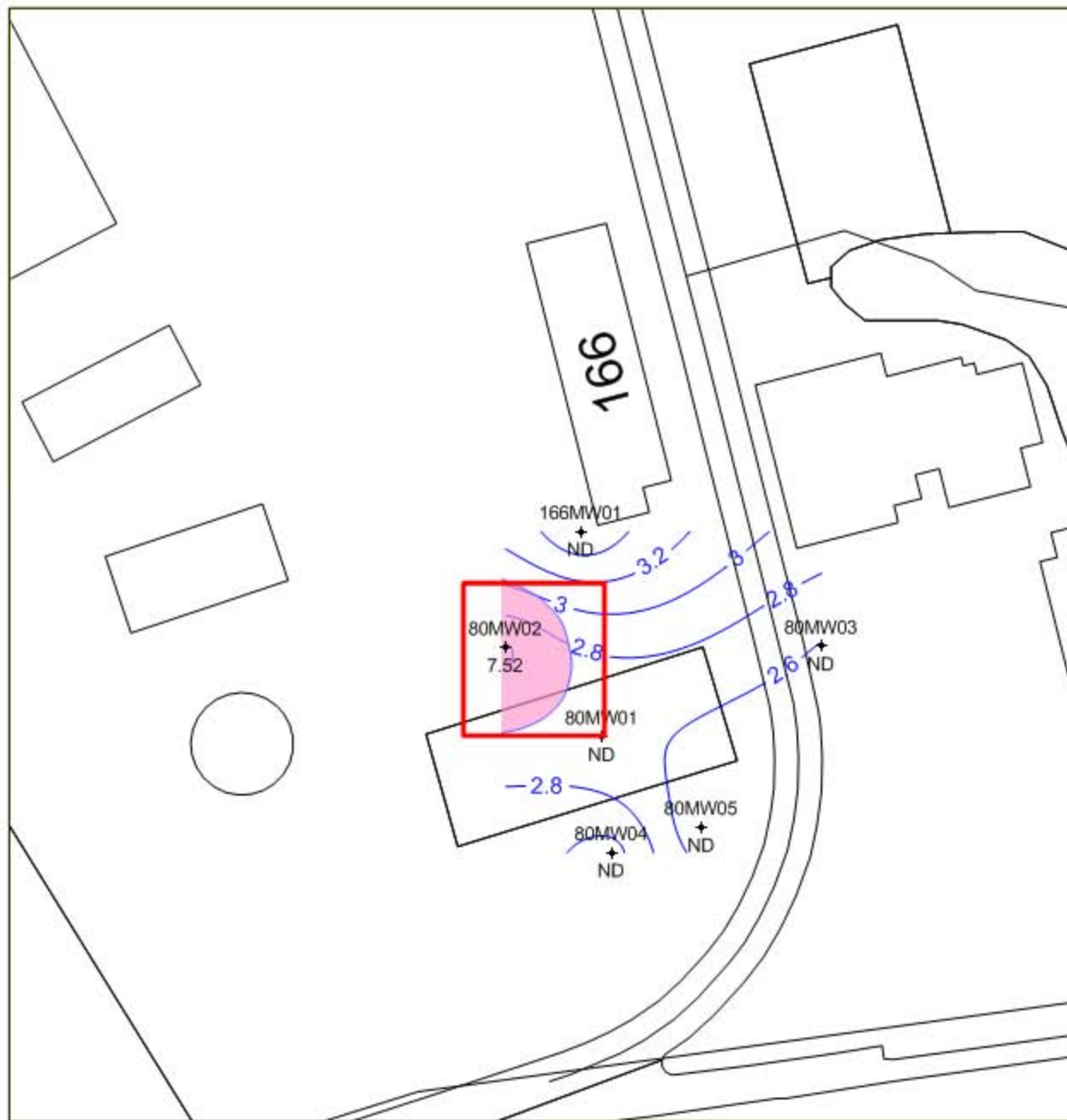


FIGURE C-10 GW ELEVATION CONTOURS & FLOW DIRECTIONS  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



Legend:



August 2010 CEA based on August 2010 measured data.  
Area: Chlordane (A ~ 10,000 sq. ft.)

 Ground Water Elevation Contour - September 2010 measured data.

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

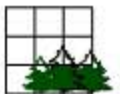
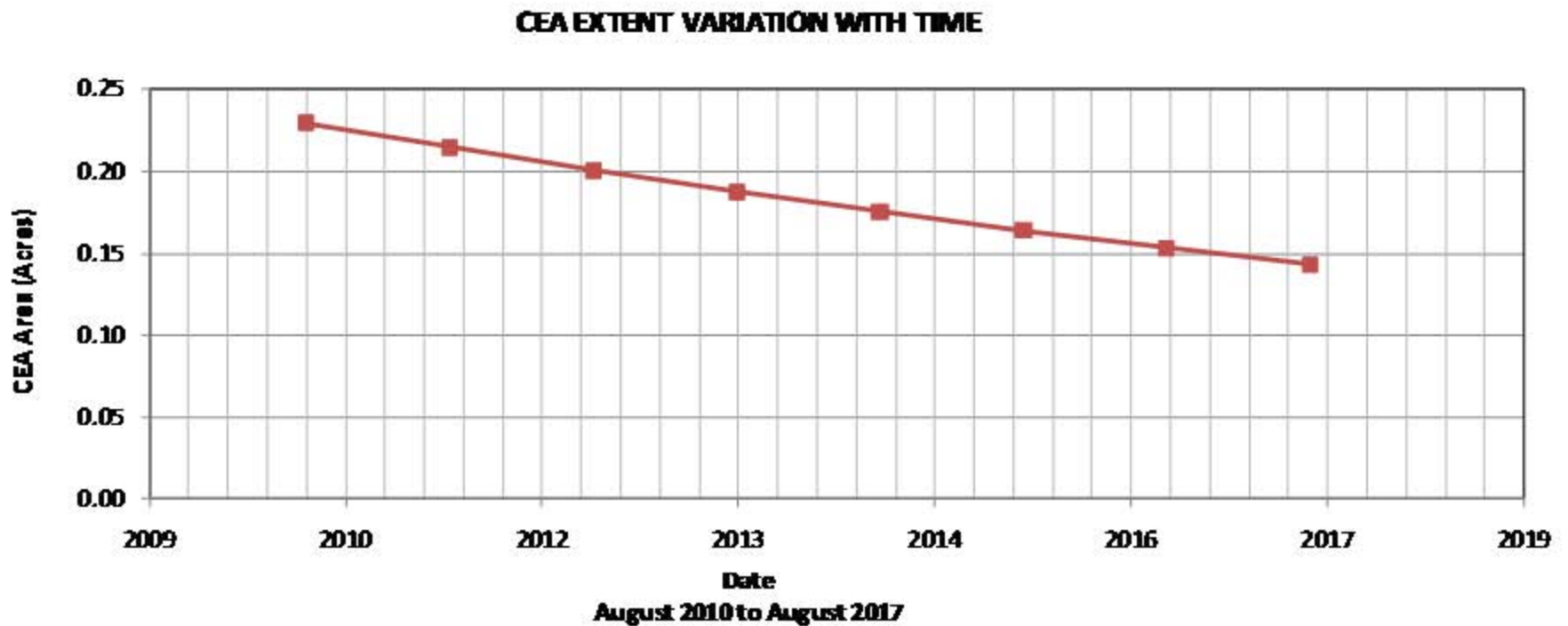


FIGURE C-11 AUGUST 2010 CEA EXTENT  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - MAIN POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP



**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.

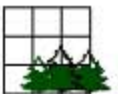


FIGURE - C-12 CEA EXTENT VARIATION WITH TIME  
CLASSIFICATION EXCEPTION AREA  
BUILDINGS 80 AND 166 (FTMM-56)  
US ARMY FORT MONMOUTH - CHARLES WOOD POST  
FORT MONMOUTH, MONMOUTH COUNTY, NEW JERSEY

DATE: 5/24/11

JOB NO.: 09BR116

SCALE: SEE MAP

**Table C-1: Pesticides Exceeding NJDEP GWQS  
August 2010 Data  
Building 80-166,  
Fort Monmouth New Jersey**

| Well_ID                                            | Aquifer | X               | Y               | Date_Collected | Lab_ID   | 4,4'-DDD | 4,4'-DDE | Chlordane | Total<br>Depth |
|----------------------------------------------------|---------|-----------------|-----------------|----------------|----------|----------|----------|-----------|----------------|
|                                                    |         | (feet - NAD 83) | (feet - NAD 83) |                |          | (ug/L)   | (ug/L)   | (ug/L)    |                |
| New Jersey Groundwater Quality Standards (NJ GWQS) |         |                 |                 |                |          | 0.1      | 0.1      | 0.5       | (feet bgs)     |
| 80MW01                                             | Shallow | 623562.057      | 540841.109      | 8/31/2010      | 10374.06 | 0.018    | ND       | ND        | 13             |
| 80MW02                                             | Shallow | 623503.5        | 540895.438      | 8/31/2010      | 10374.07 | ND       | ND       | 7.52      | 12             |
| 80MW03                                             | Shallow | 623695.234      | 540896.111      | 8/31/2010      | 10374.03 | ND       | ND       | ND        | 12             |
| 80MW04                                             | Shallow | 623567.858      | 540770.626      | 8/31/2010      | 10374.05 | ND       | ND       | ND        | 12             |
| 80MW05                                             | Shallow | 623622.45       | 540786.22       | 8/31/2010      | 10374.04 | ND       | ND       | ND        | 12             |
| 166MW01                                            | Shallow | 623549.32       | 540965.787      | 8/31/2010      | 10374.08 | ND       | ND       | ND        | 13             |

**Table C - 2:**  
**Metals Exceeding NJDEP GWQS**  
**August 2010 Data**  
**Building 80-166**  
**Fort Monmouth, New Jersey**

| Well_ID                                            | Aquifer | X               | Y               | Date_Collected | Lab_ID   | Antimony | Arsenic | Beryllium | Cadmium | Lead   | Total<br>Depth |
|----------------------------------------------------|---------|-----------------|-----------------|----------------|----------|----------|---------|-----------|---------|--------|----------------|
|                                                    |         | (feet - NAD 83) | (feet - NAD 83) |                |          | (ug/L)   | (ug/L)  | (ug/L)    | (ug/L)  | (ug/L) |                |
| New Jersey Groundwater Quality Standards (NJ GWQS) |         |                 |                 |                |          | 6        | 3       | 1         | 4       | 5      | (feet bgs)     |
| 80MW01                                             | Shallow | 623562.057      | 540841.109      | 8/31/2010      | 10374.06 | 19.7     | 22.48   | ND        | 2       | 6.43   | 13             |
| 80MW02                                             | Shallow | 623503.5        | 540895.438      | 8/31/2010      | 10374.07 | 9.03     | 1.26    | 2.42      | 0.6     | ND     | 12             |
| 80MW03                                             | Shallow | 623695.234      | 540896.111      | 8/31/2010      | 10374.03 | 11.55    | 2.11    | ND        | ND      | ND     | 12             |
| 80MW04                                             | Shallow | 623567.858      | 540770.626      | 8/31/2010      | 10374.05 | 8.29     | 5.14    | 0.088     | ND      | 2.84   | 12             |
| 80MW05                                             | Shallow | 623622.45       | 540786.22       | 8/31/2010      | 10374.04 | 12.6     | 12.84   | 0.066     | 1.03    | 5.15   | 12             |
| 166MW01                                            | Shallow | 623549.32       | 540965.787      | 8/31/2010      | 10374.08 | 20       | 3.94    | ND        | ND      | 3.4    | 13             |

**Table C - 3: Groundwater Elevation/Head September 2010 Data  
Building 80-166  
Fort Monmouth, New Jersey**

| <b>Well</b> | <b>X<br/>(feet NAD<br/>83)</b> | <b>Y<br/>(feet NAD<br/>83)</b> | <b>Total Well<br/>Depth<br/>(feet bgs)</b> | <b>Model<br/>Layer</b> | <b>September 2010<br/>Elevation/Head<br/>(feet amsl)</b> | <b>DTW<br/>(feet below<br/>TOC)</b> | <b>INSTALLATION<br/>DATE</b> | <b>CASING<br/>LENGTH<br/>(feet)</b> | <b>SCREEN<br/>LENGTH<br/>(feet)</b> | <b>TOP OF<br/>CASING<br/>(TOC)<br/>(feet amsl)</b> | <b>SLOT<br/>SIZE<br/>(feet)</b> |
|-------------|--------------------------------|--------------------------------|--------------------------------------------|------------------------|----------------------------------------------------------|-------------------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------|---------------------------------|
| 80MW01      | 623562.057                     | 540841.109                     | 13                                         | 1                      | 2.63                                                     | 3.19                                | 9/5/1994                     | 3                                   | 10                                  | 5.82                                               | 0.02                            |
| 80MW02      | 623503.5                       | 540895.438                     | 12                                         | 1                      | 2.58                                                     | 4.01                                | 7/24/2000                    | 2                                   | 10                                  | 6.59                                               | 0.01                            |
| 80MW03      | 623695.234                     | 540896.111                     | 12                                         | 1                      | 2.59                                                     | 3.95                                | 7/24/2000                    | 2                                   | 10                                  | 6.54                                               | 0.01                            |
| 80MW04      | 623567.858                     | 540770.626                     | 12                                         | 1                      | 3.09                                                     | 3.28                                | 7/24/2000                    | 2                                   | 10                                  | 6.37                                               | 0.01                            |
| 80MW05      | 623622.45                      | 540786.22                      | 12                                         | 1                      | 2.43                                                     | 3.62                                | 7/24/2000                    | 2                                   | 10                                  | 6.05                                               | 0.01                            |
| 166MW01     | 623549.32                      | 540965.787                     | 13                                         | 1                      | 3.59                                                     | 2.28                                | 9/14/1994                    | 3                                   | 10                                  | 5.87                                               | 0.02                            |

**Table C-5: CEA Extent Variation with TimeFort Monmouth M-2 Landfill (FTMM-02)Eatontown, NEW JERSEY**

| Year          | CEA Area<br>(acres) |               |          |               |
|---------------|---------------------|---------------|----------|---------------|
|               | Benzene             | Chlorobenzene | TBA      | Total         |
| 2010          | 0.46                | 0.06          | 0.23     | 0.75          |
| 2011          | 0.43                | 0.06          | 0.21     | 0.70          |
| 2012          | 0.40                | 0.06          | 0.20     | 0.65          |
| 2013          | 0.37                |               | 0.18     | 0.55          |
| 2014          | 0.34                |               | 0.17     | 0.51          |
| 2015          | 0.32                |               | 0.16     | 0.48          |
| 2016          | 0.30                |               | 0.15     | 0.44          |
| 2017          | 0.28                |               | 0.14     | 0.41          |
| 2018          |                     |               | 0.13     | 0.13          |
| 2019          |                     |               | 0.12     | 0.12          |
| 2020          |                     |               | 0.11     | 0.11          |
| 2021          |                     |               | 0.10     | 0.10          |
| 2022          |                     |               | 0.10     | 0.10          |
| 2023          |                     |               | 0.09     | 0.09          |
| 2024          |                     |               | 0.08     | 0.08          |
| 2025          |                     |               | 0.08     | 0.00          |
| Average CEA = |                     |               | acres    | <b>0.33</b>   |
|               |                     |               | sq. feet | <b>14,222</b> |

## **Exhibit D**

### **Vertical Contaminant Data**

## **EXHIBIT D**

### **1.0 VERTICAL CONTAMINANT DATA**

Pursuant to N.J.A.C 7:26E-8.3(b)3 iii, iv, and v, Brinkerhoff has provided vertical contaminant data for the Buildings 80-166 in Table D-1. The vertical extent of the Site CEA includes the shallow part of the aquifer beneath the Site, and it extends from the water table to approximately 20 feet bgs, which represents the total depth of the contaminated wells at the Site.

There is no known clean water lens as contamination is believed to be at water table elevation.

**Table D - 1**  
**Vertical Contaminant Data**  
**Building 80-166**  
**Fort Monmouth, New Jersey**

| Well ID | Water Table |          | Approximate Bottom of Plume |          | Top of Plume |          | Thickness of Clean Water Lens |          |
|---------|-------------|----------|-----------------------------|----------|--------------|----------|-------------------------------|----------|
|         | Feet bgs    | Feet msl | Feet bgs                    | Feet msl | Feet bgs     | Feet msl | Feet bgs                      | Feet msl |
| 80MW01  | 3.19        | 2.63     | 13.00                       | -7.180   | 3.19         | 2.63     | N/A                           | N/A      |
| 80MW02  | 4.01        | 2.58     | 12.00                       | -5.410   | 4.01         | 2.58     | N/A                           | N/A      |
| 80MW03  | 3.95        | 2.59     | 12.00                       | -5.460   | 3.95         | 2.59     | N/A                           | N/A      |
| 80MW04  | 3.28        | 3.09     | 12.00                       | -5.630   | 3.28         | 3.09     | N/A                           | N/A      |
| 80MW05  | 3.62        | 2.43     | 12.00                       | -5.950   | 3.62         | 2.43     | N/A                           | N/A      |
| 166MW01 | 2.28        | 3.59     | 13                          | -7.130   | 2.28         | 3.59     | N/A                           | N/A      |

bgs - below ground surface  
msl - mean sea level elevation

## **Exhibit E**

### **Fate and Transport Description and Model Documentation**

## **EXHIBIT E**

### **1.0 Duration of Classification Exception Area (CEA)**

Based upon the extensive historical monitoring data and on the fate and transport modeling performed for the site, the plume is contained and the contaminated area will diminish over time. Plume reduction (area and magnitude) is documented from the comparison between the historical measured data and the fate and transport modeling results (Exhibit C, Figure C-8). A significant reduction has been observed from 2000 to 2010 data and a similar reduction is expected to be seen from 2010 onward.

The approach used to compute the duration of the CEA is based upon the following assumptions, parameters and modeling tools, as summarized below and presented in more detail in Attachment I:

1. Used a numerical, calibrated flow and transport model to simulate plume evolution with time.
2. Defined the appropriate flow and transport model parameters as follows:
  - Design Periods - The analysis considered plume evolution over a 10-year time interval. This time interval is separated into one-year design periods where, for each period, flow conditions were held constant, while contaminant fate and transport were computed.
  - No flow stresses were considered; recharge and constant head conditions were held constant during the design periods.
  - Initial Plume Distribution - The initial concentrations in the fate and transport model were based upon 2008 data and the contaminant depletion was calibrated based upon the historical 2008 to 2010 data to ensure that the simulated future plume distribution and magnitude are similar to the historical plume distribution and magnitude.
  - Source Mass Loading was not considered, in order to be consistent with the current conditions at the site.
  - CEA Characterization Compounds – Based upon the spatial distribution, magnitude, and New Jersey Department of Environmental Protection Ground Water Quality Standards (GWQS) for the following constituent: chlordane with NJDEP GWQS of 0.5 ug/L.
  - Fate and Transport Parameters - Employed NJDEP chemical properties database and site-specific data to generate a calibrated flow and transport model.

3. Estimated total plume area variation with time using the numerical MT3D fate and transport model and the spatial plume definition: (a) vertically, by considering the shallow aquifer, 20 feet below ground surface (bgs); and (b) horizontally, by considering the areas where the chlordane exceeded its NJDEP GWQS.

Exhibit C, Figure C-8 present the results of the fate and transport modeling performed for the site at the wells with the greatest concentration to confirm concentration/plume depletion with time.

The CEA, defined as the area inside the outermost contour (NJDEP GWQS) is decreasing with time (Exhibit C, Table C-4 and Figure C-12). Figure C-12 presents the results shown in Figure C-8, in terms of area (acres) over time (2010 through 2017). For each time step (one year in this case), the CEA acreage is computed and plotted (Table C-4). This analysis shows that for the site CEA duration of 7 years, the CEA extent can be represented by an average of 0.18 acres (7,990 square feet).

## **2.0 Written and Mapped Description of the Classification Exception Area (CEA)**

New Jersey Administrative Code (N.J.A.C) 7:26E-6.2(a) 17 requires submittal of a map of the CEA compatible with the NJDEP's Geographic Information Systems both as a paper hard copy and electronically by means of a computer disk. Exhibit B, Figure B-3, shows the extent of the chlordane and lead discussed herein, with supporting written documentation provided above, represents a paper copy and an electronic copy of the map of the CEA, as a .dwg file, and is provided along with Metadata as Attachment II to this submittal.

### 3.0 References

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Zheng, C., and P.P. Wang. 1998. MT3DMS: A Modular Three Dimensional Multispecies Contaminant Transport Model, Documentation and User's Guide. Technical Publication, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

**Attachment I**

**Groundwater Flow and Transport Modeling  
Documentation**

## **Groundwater Flow and Transport Modeling**

This Attachment provides the documentation pertaining to the Fort Monmouth Buildings 80-166 (the site) groundwater flow and transport models that were used to assist with the CEA application.

### **Groundwater Flow Model**

The Parent MODFLOW Model (Brinkerhoff, 2010), which incorporates all current flow-related data (stratigraphy, water levels, river level, and well pumping rates), was telescope mesh-refined (TMR) to simulate groundwater flow at the site. Details of the 80-166 TMR MODFLOW Model, along with the Parent MODFLOW model used to generate the 80-166 TMR MODFLOW Model, are presented below.

**MODFLOW Model Horizontal Domain and Grid:** The domain and grid are shown on Figure I-1. In the Parent MODFLOW Model, the grid cell size was chosen to be about 25 feet by 25 feet because the model was covering a larger area. In the 80-166 TMR MODFLOW Model, the Parent MODFLOW Model was cut horizontally to the site area, and the grid was refined to be about five feet by five feet.

**MODFLOW Model Vertical Discretization:** Figure I-2a provides a conceptual view of the vertical discretization associated with the model. In reality, each model layer has a variable thickness where layer elevation is in general based upon boring log data and/or United States Geological Survey (USGS) reference materials. Since this information for the site is available up to a shallow depth, only 20 feet bgs, the Parent MODFLOW Model, was left unchanged.

Cross-sections through the Parent MODFLOW Model and the 80-166 TMR MODFLOW Model are provided on Figure I-2b.

**MODFLOW Model Time Discretization** – The model was set up to simulate steady state flow conditions for 10 years, between years 2008 and 2018.

### **MODFLOW Model Boundary Conditions (BC)**

- **Constant Head Boundaries:** Figure I-3 shows the constant head boundary used in the models as blue cells. The values of the constant head boundary in the 80-166 TMR MODFLOW Model were determined based upon September 2010 measured head data.
- **Surface Water Body:** Oceanport Creek was modeled as a constant head condition in the Parent Model, and as a constant head boundary condition in the 80-166 TMR Model, as shown in Figure I-3.

**MODFLOW Model Infiltration from Precipitation:** The magnitude is derived from measured data (Brinkerhoff, 2010). A uniform constant value of 4 in/yr (0.00091324 feet/day) was used in the Parent MODFLOW model. In the 80-166 TMR MODFLOW Model, the recharge used was zero over the whole site, since the site is completely paved.

**MODFLOW Model Hydraulic Conductivity Distribution** – Model layers of interest, Layers 1 and 2, are homogeneous with the hydraulic conductivity values shown on Figure I-4. For Layer 1, a hydraulic conductivity of 2.5 ft/day was used in both, Parent MODFLOW Model and 80-166 TMR MODFLOW Model. For Layer 2, a hydraulic conductivity of 0.5 ft/day was used in both, Parent MODFLOW Model and 80-166 TMR MODFLOW Model.

### **MODFLOW Model Results**

The groundwater elevation contours of the flow field at the site, based upon measured data from September 2010, are presented on Figure I-5a.

The simulated heads from the Parent MODFLOW Model and 80-166 TMR MODFLOW Model are presented on Figure I-5b.

Figure I-5c presents particle tracking runs using the MODPATH Model, the particle-tracking post-processing package that was developed to compute three-dimensional flow paths using output from steady-state or transient groundwater flow simulations by MODFLOW.

### **MODFLOW Model Calibration**

Figure I-6a presents the spatial distribution of the residuals (the differences between the measured and simulated heads) for the Parent MODFLOW Model and 80-166 TMR MODFLOW Model. The measured heads used for calibration are from the September 2010 sampling event.

Figure I-6b presents measured heads versus simulated heads graphs. As it can be seen on Figure I-6b, the calibration in the 80-166 TMR MODFLOW Model was improved. This is also shown on Figure I-6c, presenting the residuals and the calculated residual mean square error (RMSE).

### **MODFLOW Model Sensitivity Analyses**

Figure I-7 presents the sensitivity analyses of the 80-166 TMR MODFLOW Model at the variation of different input parameters - horizontal hydraulic conductivity, vertical hydraulic conductivity, and recharge.

### **Groundwater Transport Model**

Site operations have resulted in elevated concentrations of a constituent of possible concern (COPC), chlordane in groundwater beneath the site. The objective of this analysis is to predict migration and future concentrations of these COPCs considering a monitored natural remediation (MNA) approach.

The MT3D computer code (Zheng and Wang 1998) developed by the United States Environmental Protection Agency (USEPA) was selected for solute transport modeling.

The MT3D solute transport model uses the velocity field output from the MODFLOW groundwater flow model to predict movement of dissolved constituents by simulating the physical processes of advection, dispersion, adsorption, and biodegradation. MT3D was chosen for this modeling application because it is designed to be used in conjunction with MODFLOW (McDonald and Harbaugh 1988), and it uses the previously constructed Parent MODFLOW Model designed for the site (Brinkerhoff, 2010).

### **MT3D Model Transport Parameters**

The simulation of solute migration requires specification of various transport parameters that control the rate, movement, mixing, adsorption, and degradation of a contaminant in the subsurface. Advection defines the process of contaminant migration due to the movement of groundwater. Dispersion accounts for the mixing of the contaminant in the groundwater due to nonideal flow paths in the aquifer medium. Adsorption refers to the partitioning of a contaminant between the liquid and solid phases of the aquifer. Degradation is the mass decay of a contaminant as a result of physical, chemical, and biological activity within the aquifer.

The solute transport simulations for the COPC at the site was run with advection, dispersion, adsorption and biodegradation.

### **MT3D Model Advection**

Simulation of advective transport requires a specification of the effective porosity to compute interstitial groundwater velocities. The effective porosity was assumed to be 25 percent (%), a reasonable value for the sands and the silty clays at the site (USEPA 1989). The total porosity of the soils in the aquifer is estimated to be on the order of 35%. The difference, 10%, is typically considered to represent ineffective portions of a porous media, not affecting solute transport, because they do not affect the movement of the water.

### **MT3D Model Dispersion**

The dispersion coefficients used in the model, as estimated based upon the plume spread at the site (Gelhar 1992, USEPA 1985) are longitudinal, 5 feet, transverse, 0.5 feet, and vertical, 0.05 feet.

### **MT3D Model Adsorption**

The retardation factor ( $R_f$ ) is used by the solute transport model to represent the amount of adsorption of a constituent between the dissolved or solute phase and the aquifer matrix. Mathematically, the retardation can be expressed according to the following equation:

$$R_f = 1 + \frac{\rho_b \times K_d}{\theta_e}$$

Where  $\rho_b$  is the bulk density (1.5 kg/L),  $K_d$  is the soil to water partition coefficient ( $K_d = K_{oc} \times f_{oc}$  in L/kg), and  $\theta_e$  is the effective porosity (0.25).  $K_{oc}$  is the organic carbon

partition coefficient (see the chemical specific values below), and  $f_{oc}$  is the fraction of organic carbon (0.002 - NJDEP default value). The retardation calculated based upon the above assumptions is as follows:

| <u>Compound</u> | <u><math>K_{oc}</math> (L/kg)</u> | <u><math>K_d</math> (L/kg)</u> | <u>Retardation</u> |
|-----------------|-----------------------------------|--------------------------------|--------------------|
| Chlordane       | 120,000                           | 240                            | 1,441              |

### **MT3D Model Biodegradation**

The change in mass of a constituent due to first-order degradation processes is represented mathematically as:

$$M = M_0 e^{-\lambda t}$$

Where  $M$  is the nondegraded mass at some time,  $t$ ,  $M_0$  is the initial mass and  $\lambda$  is the decay coefficient. The decay coefficient can be computed from the constituent half-life ( $t_{1/2}$ ), the amount of time it takes 50% of the mass of the constituents to degrade, using the equation:

$$\lambda = \frac{\ln 2}{t_{1/2}}$$

The site-specific half-life for the COCs was quantified based upon historical site data. The modeled decay coefficient for each COC is as follows:

| <u>Compound</u> | <u>Bio-Decay Half-Life (yrs)</u> | <u>Decay Coefficient (yrs<sup>-1</sup>)</u> |
|-----------------|----------------------------------|---------------------------------------------|
| Chlordane       | 0.0018                           | 389                                         |

### **MT3D Model Initial Conditions**

The initial conditions for concentration 2008 of chlordane are defined by using an initial known concentration distribution and no source mass loading, to model the distribution for September 2010, using the site-specific calibrated flow and transport model. This method provides a physically and numerically consistent initial condition for use in the predictive runs.

In Figure I-8a there are the concentration contour maps of the initial conditions, the measured 2008 data, and in Figure I-8b there is the concentration contour map of the measured August 2010 data, used for calibration.

### **MT3D Model Sources**

Source conditions were not included in the model.

### **MT3D Model Calibration**

The CEA duration and extent depend on the most conservative constituent, which here is chlordane. Therefore, chlordane simulated concentrations at 0 (March 2008), 2 years (August 2010), 15 years (August 2015) and 17 years (August 2017) are presented as iso-concentrations on Figures I-9a, I-9b, I-9c and I-9d. Figure I-9b presents the simulated iso-concentrations for chlordane August 2010, which compare well with the iso-concentrations generated from May 2010 and September 2010 measured data presented on Figures I-8b and I-8c.

### **MT3D Model Results**

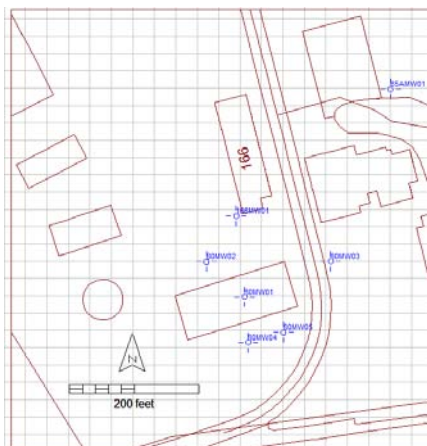
The simulation results for the future conditions are presented in the well with the highest chlordane concentrations, 80MW02, in Figures I-10, along with the historical measured concentrations.

Figures I-9c and I-9d present the chlordane simulation results for future conditions, as iso-concentrations in years 2015 and 2017.

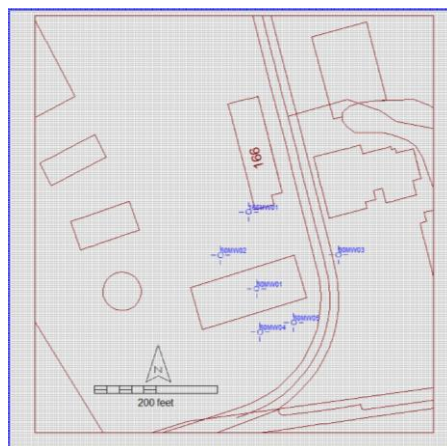
As it can be seen on all the figures which present the modeling results, the COPC, chlordane, shows decreases in magnitude and extent.

The September 2010 CEA extent on Figure I-11 is derived from the simulated MT3D/measured September 2010 concentrations, and covers an area of about 0.23 acres.

For the 2012 Biennial Certification monitoring report of the site groundwater CEA, the September 2010 CEA extent will be updated and the 2010-2012 monitoring data will be used to confirm the fate and transport modeling results presented herein.



Parent MODFLOW  
Model  
~ 25 feet x 25 feet cell



80-166 TMR MODFLOW  
Model  
~ 5 feet x 5 feet cell

| Model Summary                                                                                                                                                                                                      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Grid</b><br>Rows: 430<br>Columns: 429<br>Layers: 4<br>Total Cells: 737880<br>Active Cells: 554638                                                                                                               |  |  |
| <b>Coordinate Transformation</b><br>X Offset: 612753.65<br>Y Offset: 533877.17<br>Rotation: 0                                                                                                                      |  |  |
| <b>Boundary Conditions</b><br>Constant Heads: 83375<br>Wells: 0<br>Rivers: 832<br>Drains: 0<br>GHBs: 0<br>Streams: 0<br>Walls: 0<br>Lakes: 0<br>Wetlands: 0<br>No Flow: 183242<br>FHB: 0                           |  |  |
| <b>Target Types</b><br>Head: 180<br>Head Difference: 0<br>Drawdown: 0<br>Concentration: 0<br>Flux (node): 0<br>Flux (reach): 0<br>Prior Information: 0<br>Constraints: 0<br>Kx Pilot Point: 0<br>Kz Pilot Point: 0 |  |  |
| <b>Grid Spacing</b><br>Rows (Delta Y): Minimum 26.687696, Maximum 26.6876970000<br>Columns (Delta X): Minimum 33.1336779999, Maximum 33.1336790000                                                                 |  |  |
| Original File from GV Version 5: gv550                                                                                                                                                                             |  |  |

| Model Summary                                                                                                                                                                                                    |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Grid</b><br>Rows: 200<br>Columns: 200<br>Layers: 2<br>Total Cells: 80000<br>Active Cells: 80000                                                                                                               |  |  |
| <b>Coordinate Transformation</b><br>X Offset: 623157.62<br>Y Offset: 540575.79<br>Rotation: 0                                                                                                                    |  |  |
| <b>Boundary Conditions</b><br>Constant Heads: 1592<br>Wells: 0<br>Rivers: 0<br>Drains: 0<br>GHBs: 0<br>Streams: 0<br>Walls: 0<br>Lakes: 0<br>Wetlands: 0<br>No Flow: 0<br>FHB: 0                                 |  |  |
| <b>Target Types</b><br>Head: 6<br>Head Difference: 0<br>Drawdown: 0<br>Concentration: 0<br>Flux (node): 0<br>Flux (reach): 0<br>Prior Information: 0<br>Constraints: 0<br>Kx Pilot Point: 0<br>Kz Pilot Point: 0 |  |  |
| <b>Grid Spacing</b><br>Rows (Delta Y): Minimum 3.602838999999, Maximum 3.602839000000<br>Columns (Delta X): Minimum 3.644704999999, Maximum 3.644705000000                                                       |  |  |
| Original File from GV Version 1: gv100                                                                                                                                                                           |  |  |

Figure I-1: MODFLOW Models Horizontal Discretization

Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey

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ENVIRONMENTAL SERVICES, INC.

SCALE: See Map

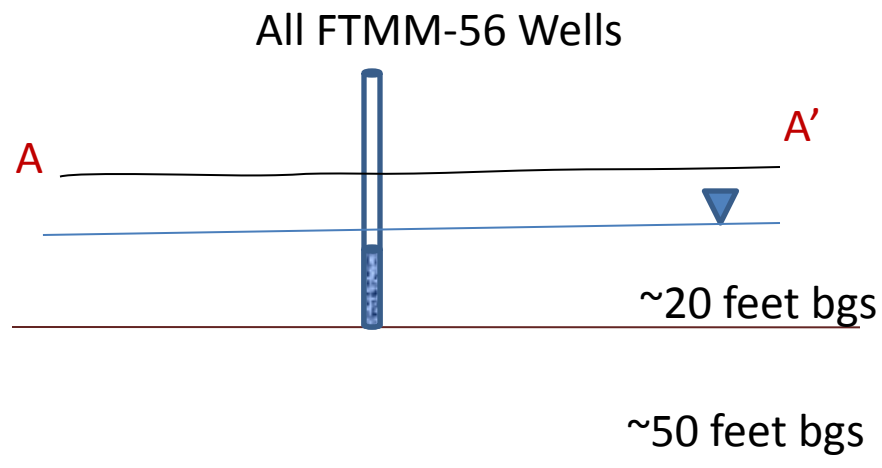
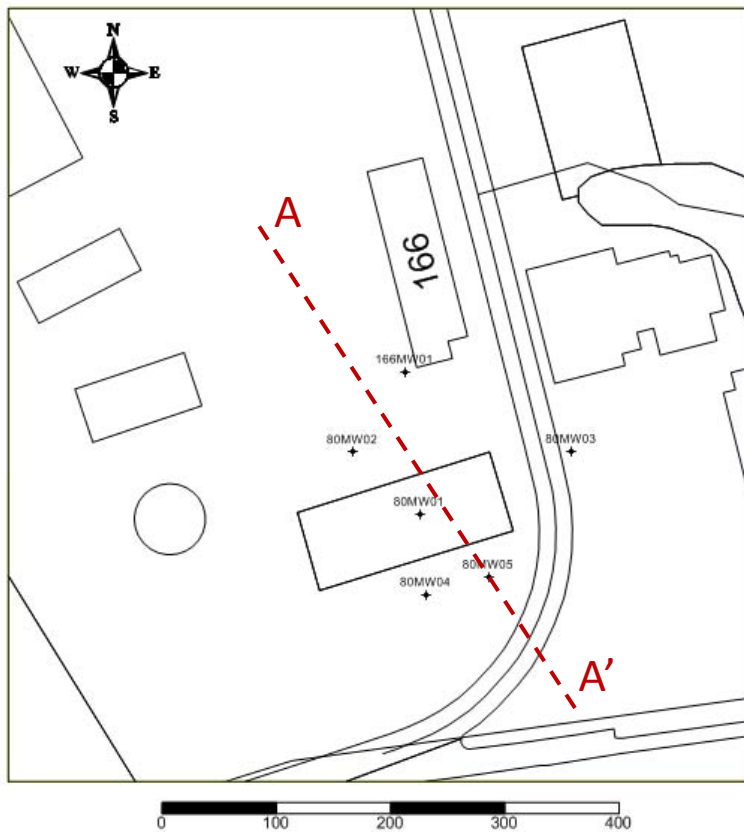
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



Generalized  
Site Cross-Section

Figure I-2a: Conceptual View of Vertical Discretization

Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey

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SCALE: See Map

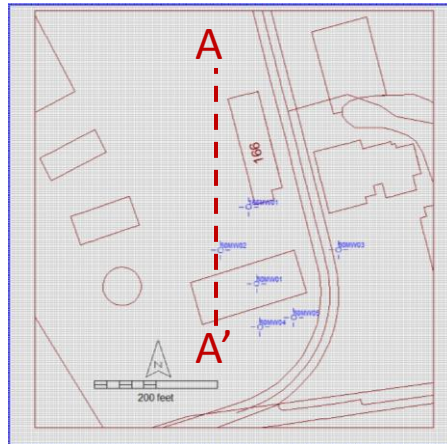
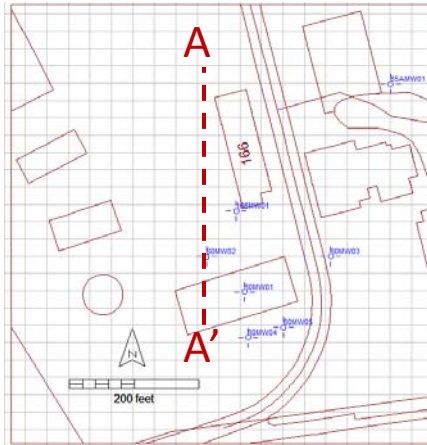
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

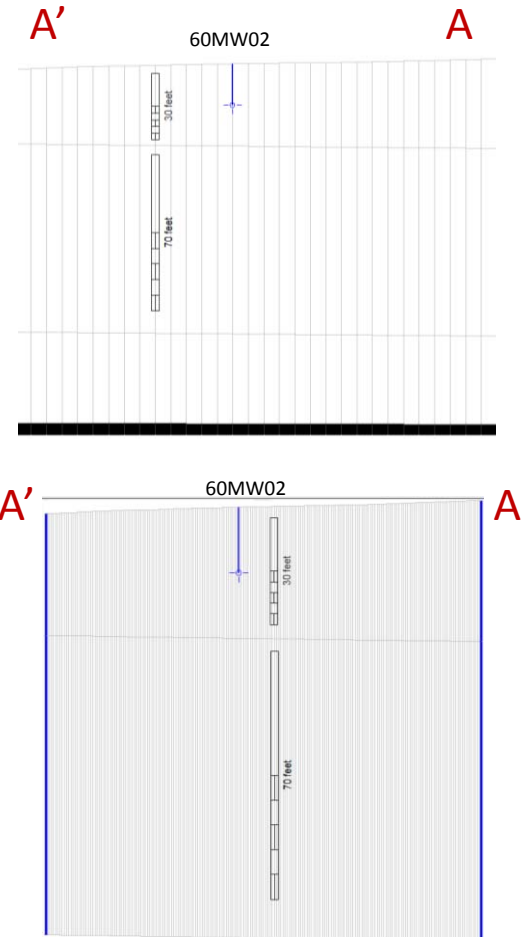
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



## Parent MODFLOW Model Layer 1 & 2 ~ 100 feet bgs

## 80-166 TMR MODFLOW Model Layer 1 & 2 ~ 100 feet bgs



**Figure I-2b: MODFLOW Models Vertical Discretization**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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DATE: 5/24/2011

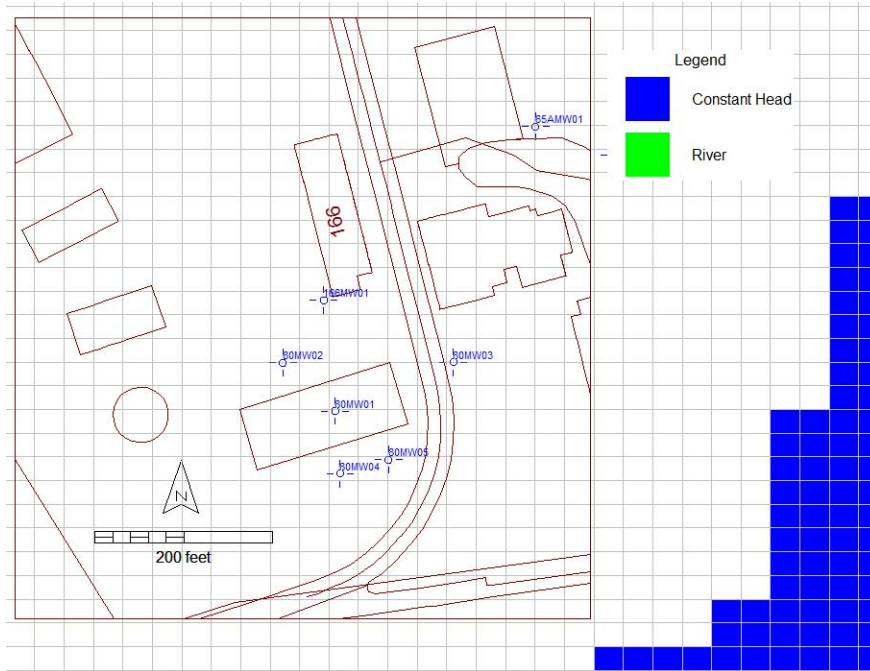
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

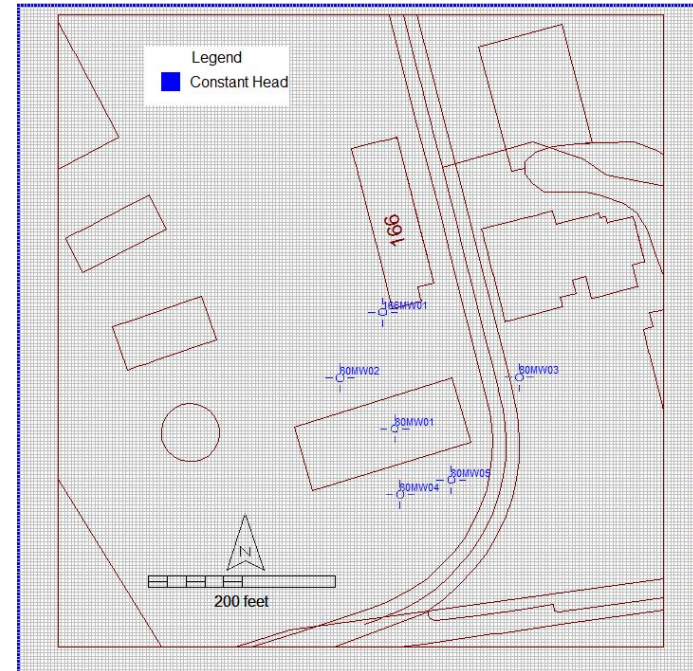
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx

## Parent MODFLOW Model



## 80-166 TMR MODFLOW Model



### Note

Constant Head BC for the Parent MODFLOW Model are not visible - they are at the edges of the Parent MODFLOW Model grid, similar to the Constant Head BC for the 80-166 TMR MODFLOW Model.

**Figure I-3: MODFLOW Models Boundary Conditions**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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SCALE: See Map

DATE: 5/24/2011

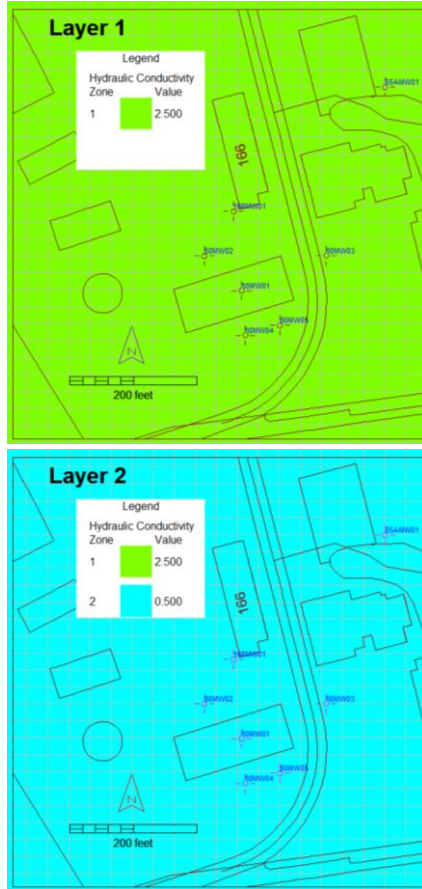
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

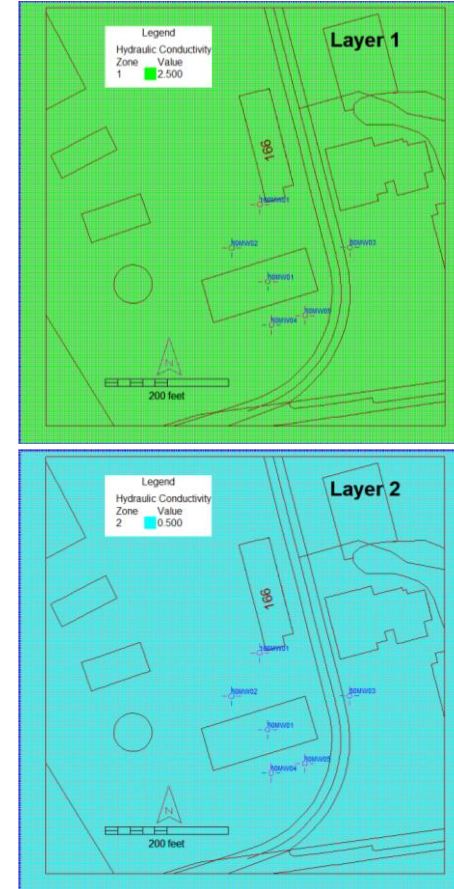
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx

## Parent MODFLOW Model



## 80-166 TMR MODFLOW Model



### Note

Vertical hydraulic conductivity is 10% of horizontal hydraulic conductivity

**Figure I-4: MODFLOW Models Hydraulic Conductivity**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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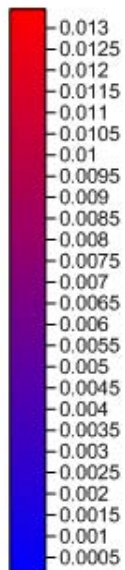
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

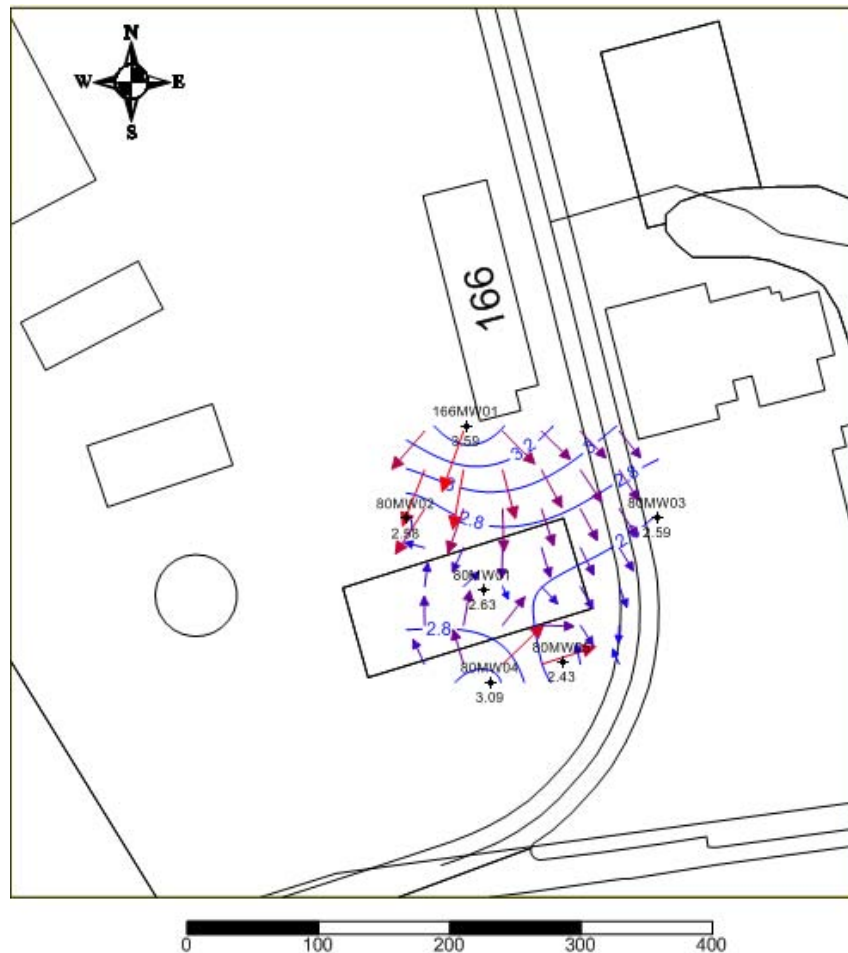
PROJECT NO.: 09BR116

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### Legend



Color scale for hydraulic gradient magnitude  
September 2010 measured data



**Figure I-5a: Ground Water Elevation Contours and Flow Directions**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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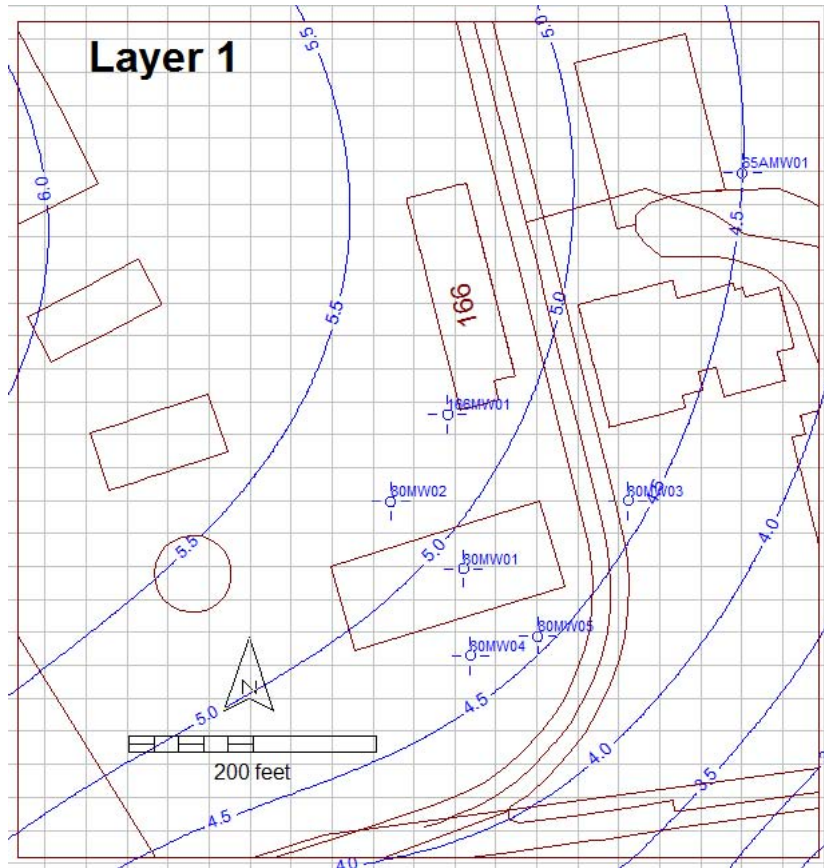
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

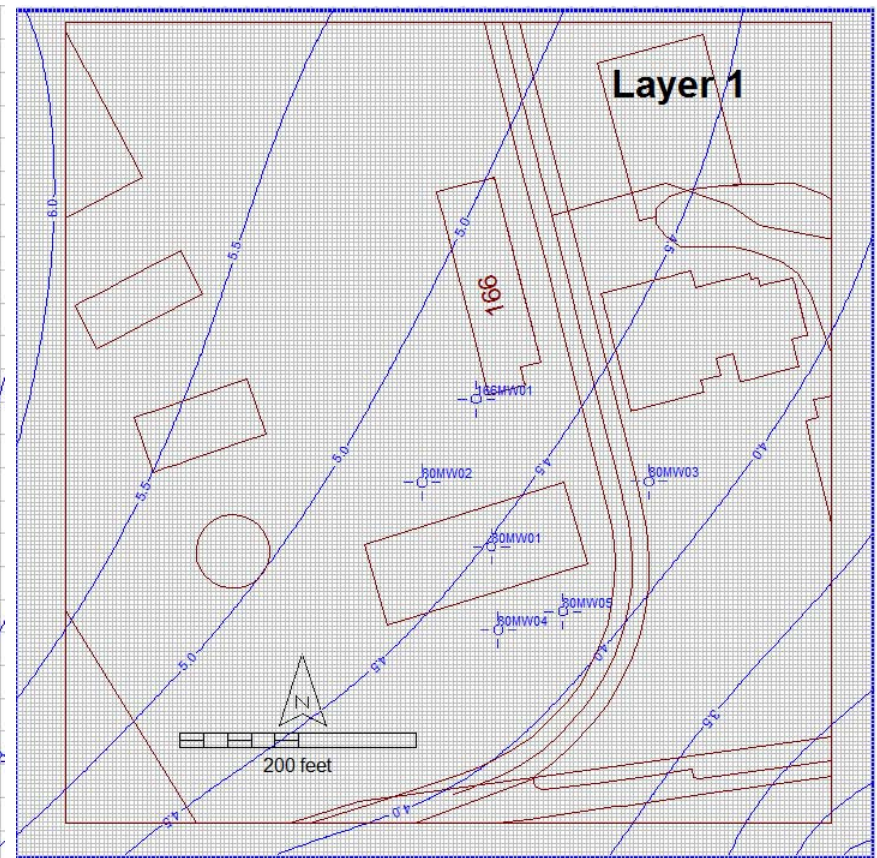
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures\_4-15-2011.pptx

## Parent MODFLOW Model



## 80-166 TMR MODFLOW Model



### Note

Ground water elevation contours in the two models are different due to different 80-166 TMR MODFLOW boundary conditions and re-calibration.

**Figure I-5b: Models Results – Ground Water Elevation Contours**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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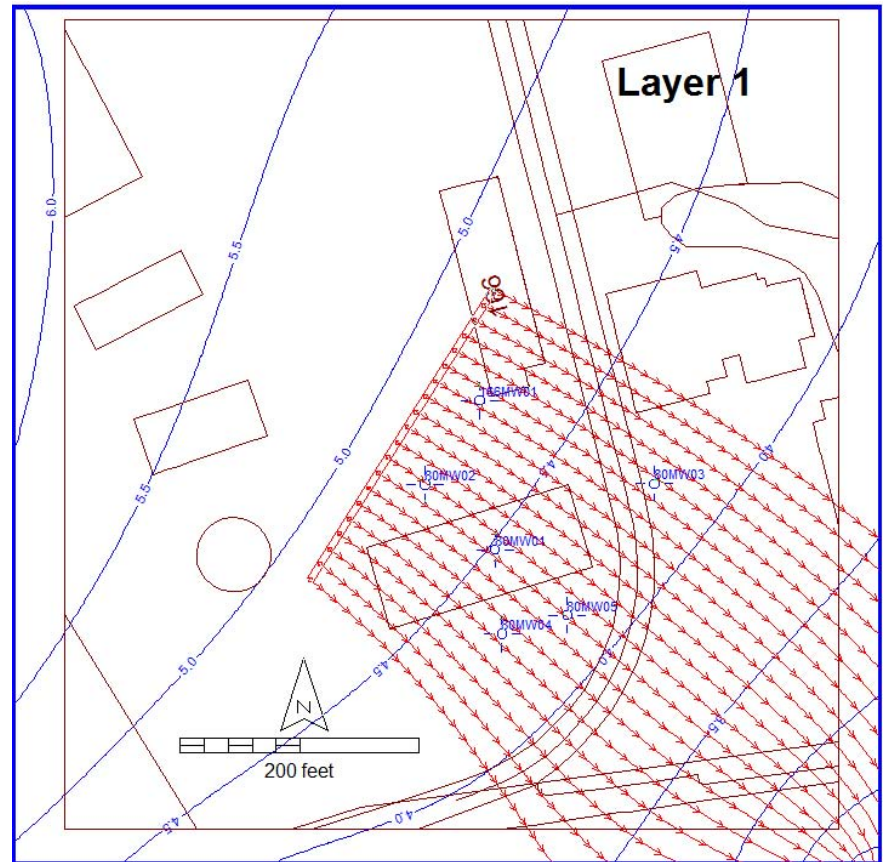
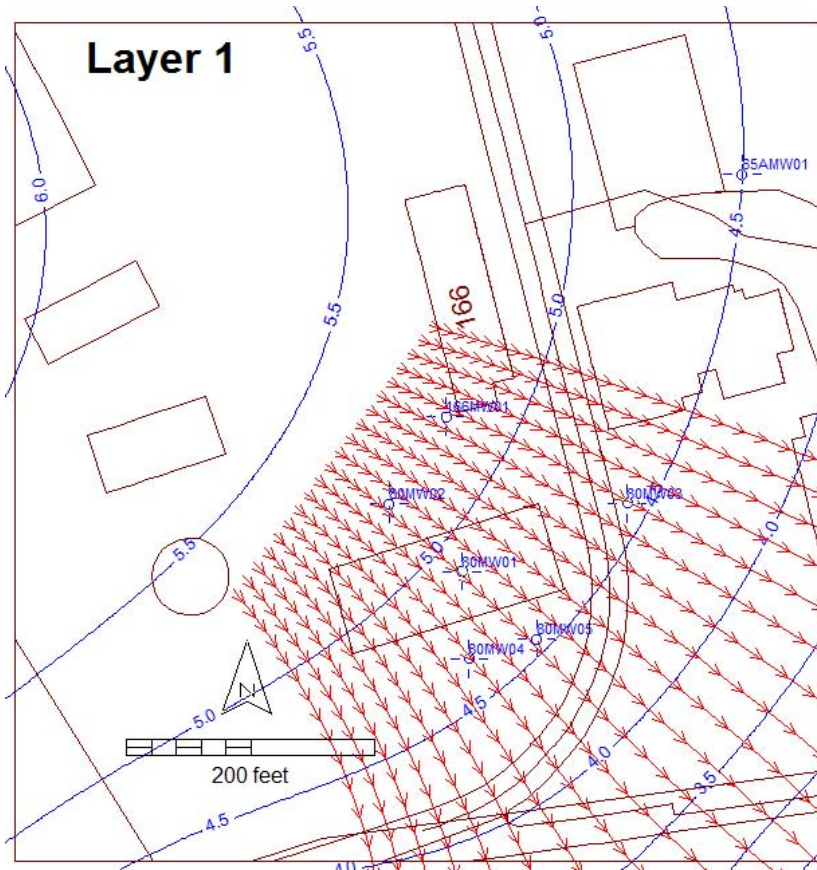
CHECKED BY: Gary DiMartinis

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FILE NAME: 80-166-Figures-I.pptx

Parent MODFLOW Model

80-166 TMR MODFLOW Model



**Note**

Ticks/Arrows are every 1 year (365 days). Effective porosity is 0.25.

**Figure I-5c: Models Results – Particle Tracking**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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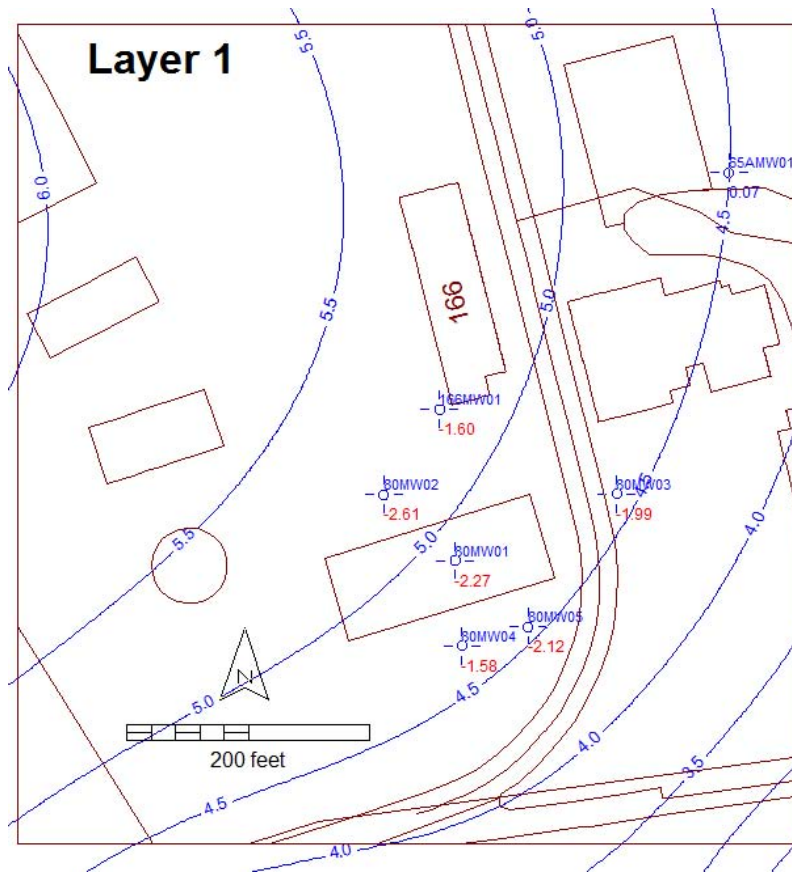
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

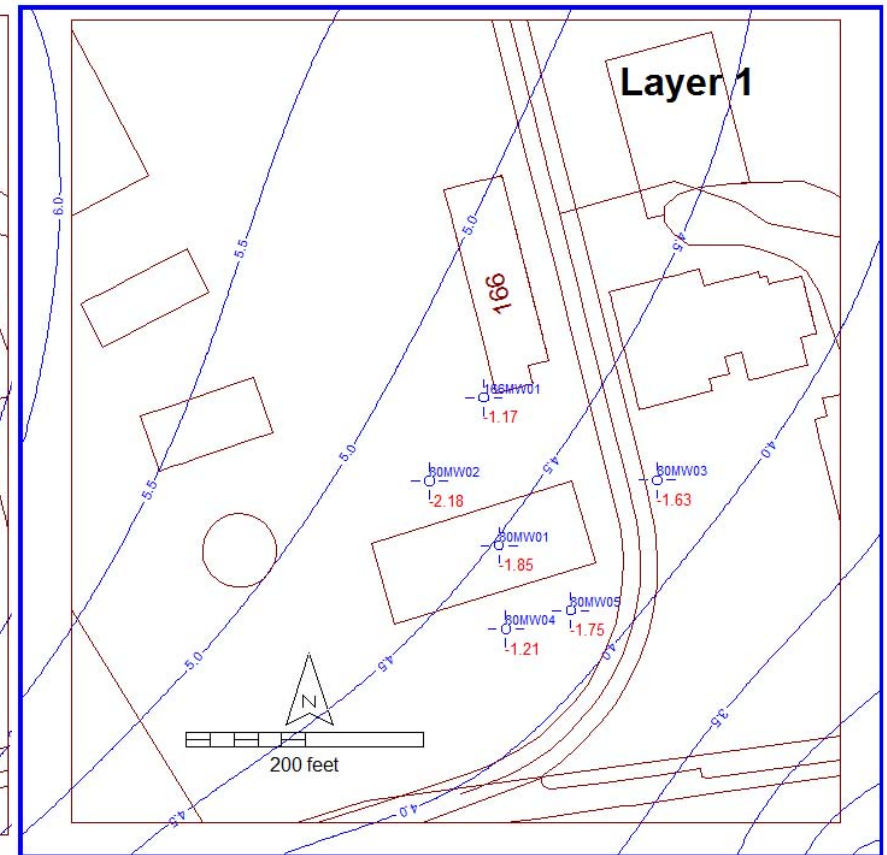
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx

## Parent MODFLOW Model



## 80-166 TMR MODFLOW Model



### Note

Residuals represent the differences between measured and simulated heads. The measured heads are from the September 22, 2010 sampling event.

**Figure I-6a: MODFLOW Calibration – Residuals Distributions**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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SCALE: See Map

DATE: 5/24/2011

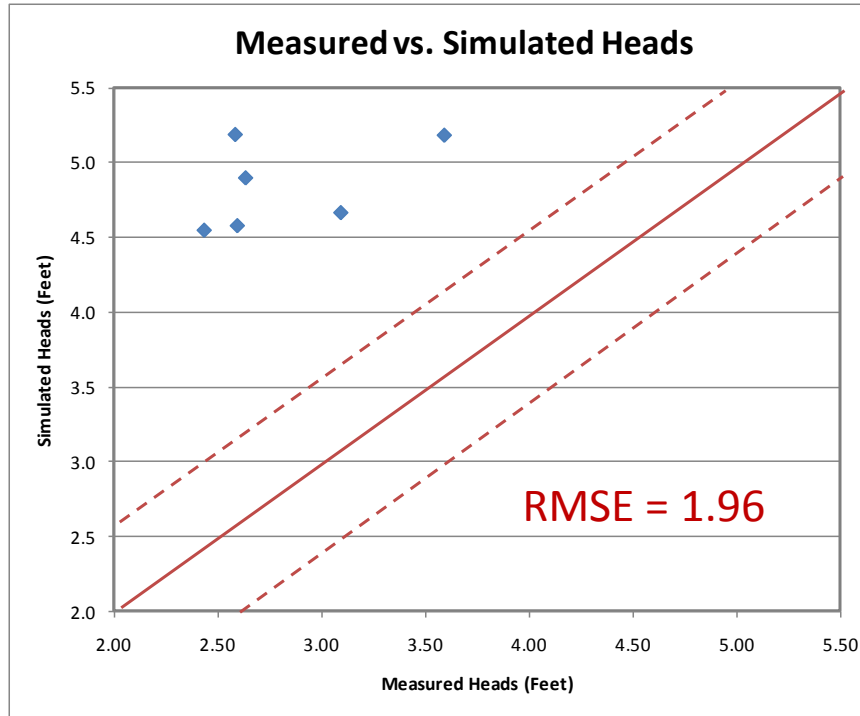
PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

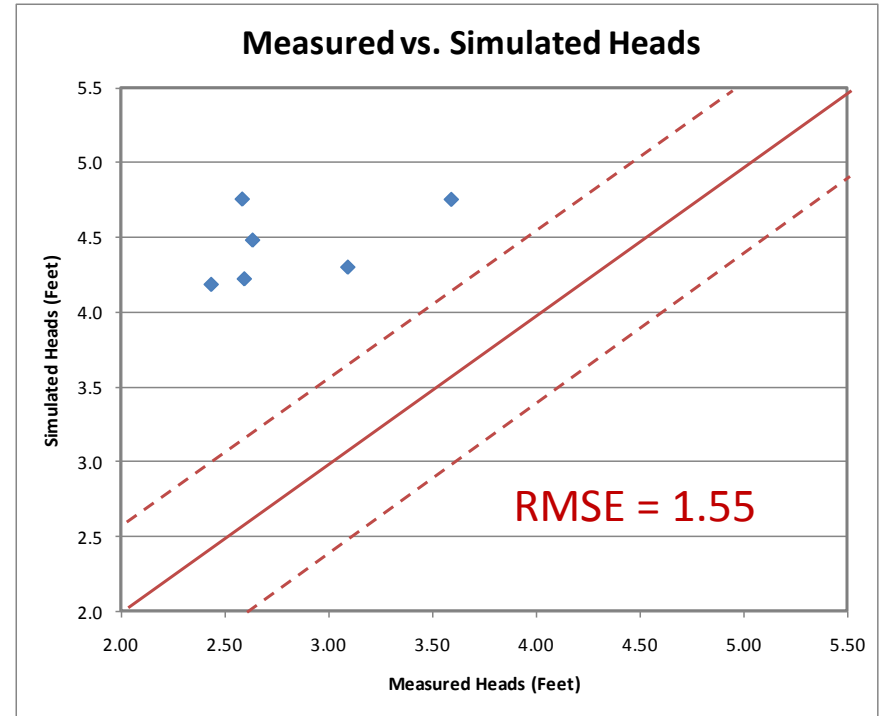
PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx

## Parent MODFLOW Model 80-166 Site Only



## 80-166 TMR MODFLOW Model



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DATE: 5/24/2011

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CHECKED BY: Gary DiMartinis

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FILE NAME: 80-166-Figures-I.pptx

**Figure I-6b: MODFLOW Calibration – Measured vs. Simulated Heads**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

## Parent MODFLOW Model 80-166 Site Only

| Name                   | X           | Y        | Layer | Observed | Computed | Residual |
|------------------------|-------------|----------|-------|----------|----------|----------|
| 166MW01                | 623549.3    | 540965.8 | 1     | 3.59     | 5.19     | -1.60    |
| 80MW01                 | 623562.1    | 540841.1 | 1     | 2.63     | 4.90     | -2.27    |
| 80MW02                 | 623503.5    | 540895.4 | 1     | 2.58     | 5.19     | -2.61    |
| 80MW03                 | 623695.2    | 540896.1 | 1     | 2.59     | 4.58     | -1.99    |
| 80MW04                 | 623567.9    | 540770.6 | 1     | 3.09     | 4.67     | -1.58    |
| 80MW05                 | 623622.5    | 540786.2 | 1     | 2.43     | 4.55     | -2.12    |
| Residual Mean          | -1.93       |          |       |          |          |          |
| Abs. Res. Mean         | 1.93        |          |       |          |          |          |
| Res. Std. Dev.         | 0.48        |          |       |          |          |          |
| Sum of Squares         | 7.70        |          |       |          |          |          |
| <b>RMS Error</b>       | <b>1.96</b> |          |       |          |          |          |
| Min. Residual          | -2.27       |          |       |          |          |          |
| Max. Residual          | -1.60       |          |       |          |          |          |
| Number of Observations | 2           |          |       |          |          |          |
| Range in Observations  | 0.96        |          |       |          |          |          |
| Scaled Std. Dev.       | 0.497       |          |       |          |          |          |
| Scaled Abs. Mean       | 2.013       |          |       |          |          |          |
| Scaled RMS             | 2.04        |          |       |          |          |          |

**RMSE = 1.96**

## 80-166 TMR MODFLOW Model

| Name                   | X           | Y        | Layer | Observed | Computed | Residual |
|------------------------|-------------|----------|-------|----------|----------|----------|
| 166MW01                | 623549.3    | 540965.8 | 1     | 3.59     | 4.76     | -1.17    |
| 80MW01                 | 623562.1    | 540841.1 | 1     | 2.63     | 4.48     | -1.85    |
| 80MW02                 | 623503.5    | 540895.4 | 1     | 2.58     | 4.76     | -2.18    |
| 80MW03                 | 623695.2    | 540896.1 | 1     | 2.59     | 4.22     | -1.63    |
| 80MW04                 | 623567.9    | 540770.6 | 1     | 3.09     | 4.30     | -1.21    |
| 80MW05                 | 623622.4    | 540786.2 | 1     | 2.43     | 4.18     | -1.75    |
| Residual Mean          | -1.51       |          |       |          |          |          |
| Abs. Res. Mean         | 1.51        |          |       |          |          |          |
| Res. Std. Dev.         | 0.48        |          |       |          |          |          |
| Sum of Squares         | 4.79        |          |       |          |          |          |
| <b>RMS Error</b>       | <b>1.55</b> |          |       |          |          |          |
| Min. Residual          | -1.85       |          |       |          |          |          |
| Max. Residual          | -1.17       |          |       |          |          |          |
| Number of Observations | 2           |          |       |          |          |          |
| Range in Observations  | 0.96        |          |       |          |          |          |
| Scaled Std. Dev.       | 0.505       |          |       |          |          |          |
| Scaled Abs. Mean       | 1.572       |          |       |          |          |          |
| Scaled RMS             | 1.61        |          |       |          |          |          |

**RMSE = 1.55**

**Figure I-6c: MODFLOW Calibration – RMSE**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**



SCALE: See Map

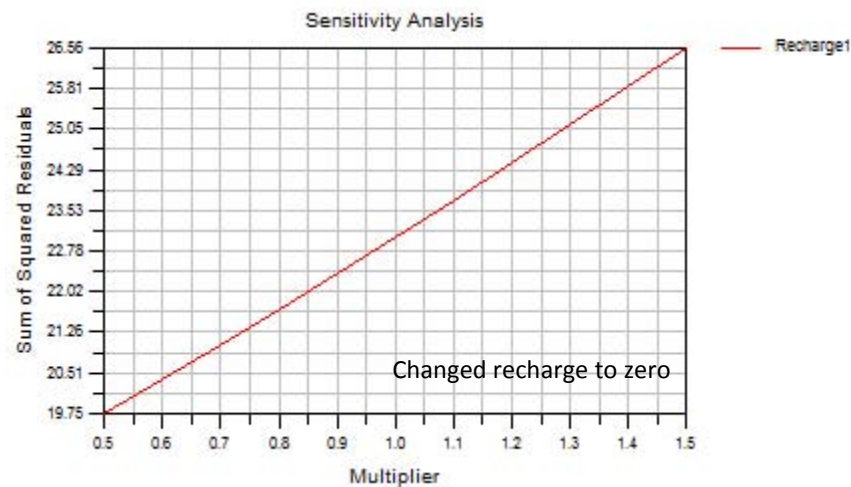
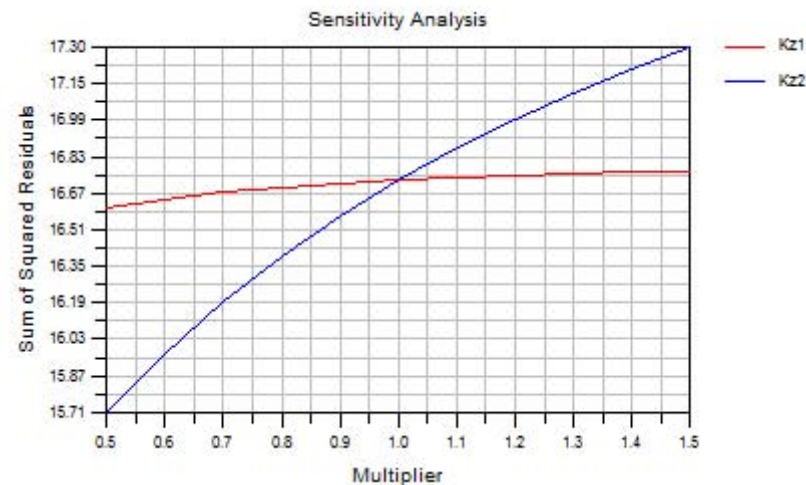
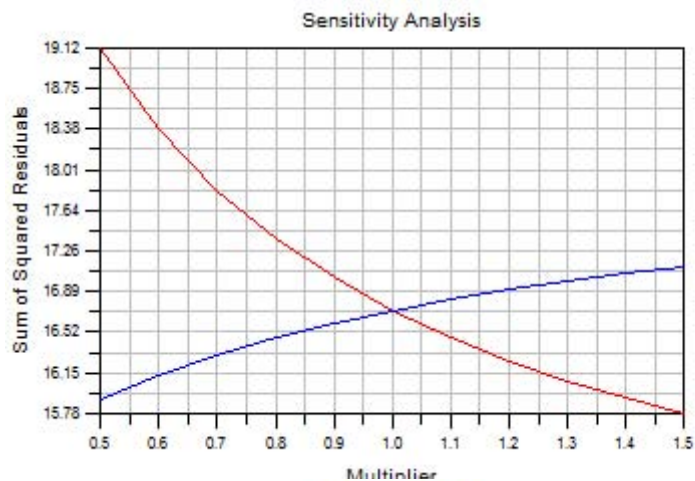
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CHECKED BY: Gary DiMartinis

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FILE NAME: 80-166-Figures-I.pptx



**Figure I-7: 80-166 TMR MODFLOW Model – Sensitivity Analysis**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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SCALE: See Map

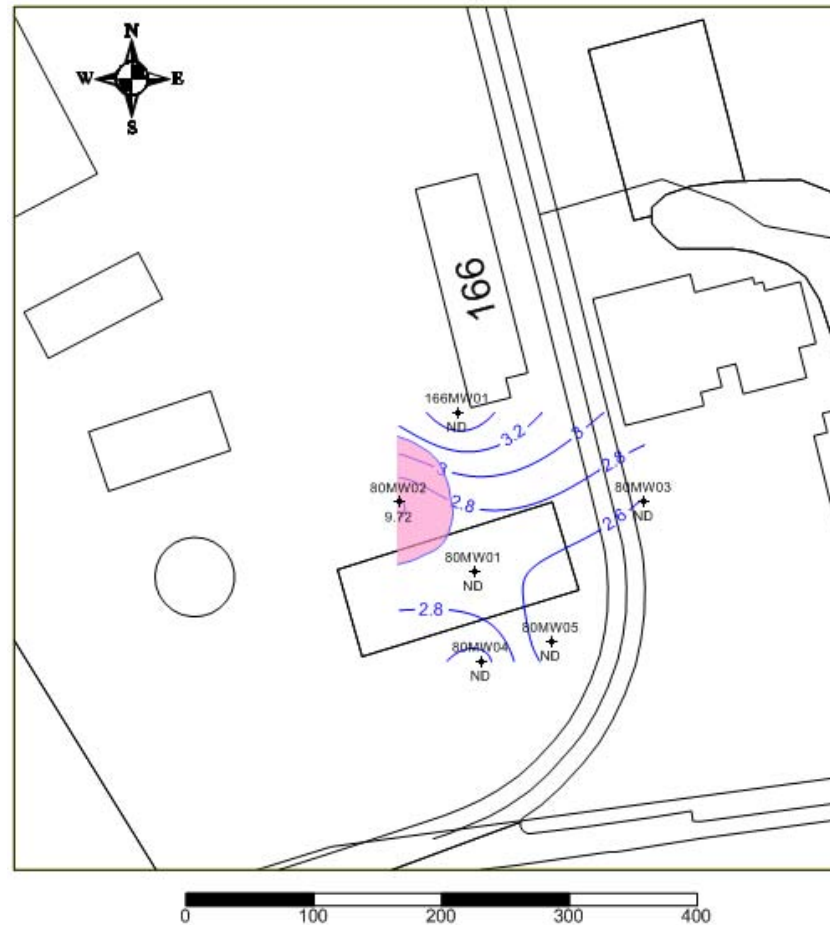
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



### Legend

Measured 2008 Chlordane **0.5 ug/L** plume  
September 2010 ground water elevation data

**Figure I-8a: Measured Concentrations – Spatial Distribution in 2008**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

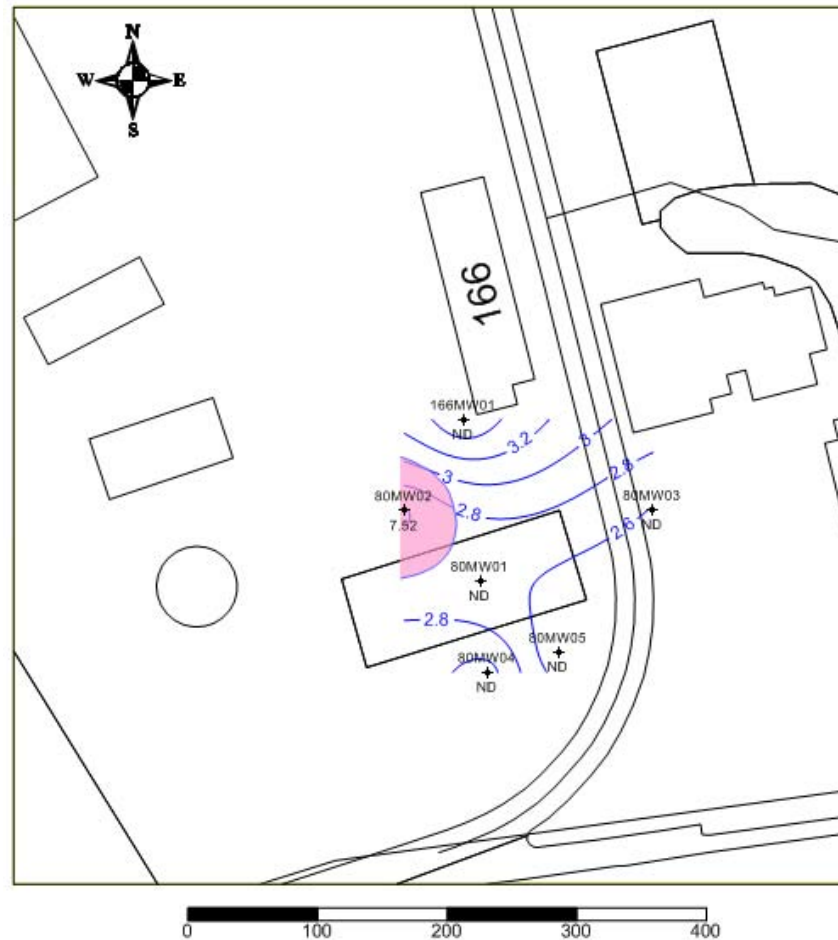
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures\_4-15-2011.pptx



### Legend

Measured 2010 chlordane **0.5 ug/L** plume  
September 2010 ground water elevation data

**Figure I-8b: Measured Concentrations – Spatial Distribution in 2010**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

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SCALE: See Map

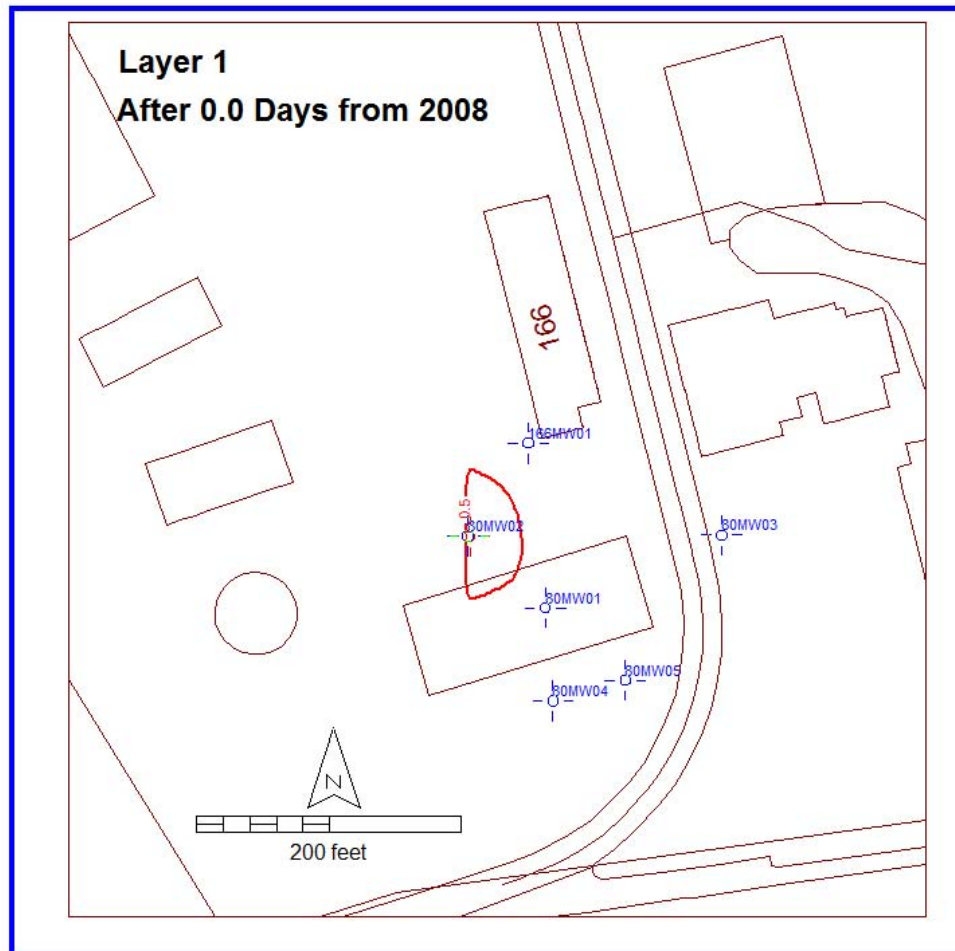
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures\_4-15-2011.pptx



**Legend**



Simulated **0.5 ug/L** 2008 chlordane plume

**Figure I-9a: Simulated Concentrations – 2008**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

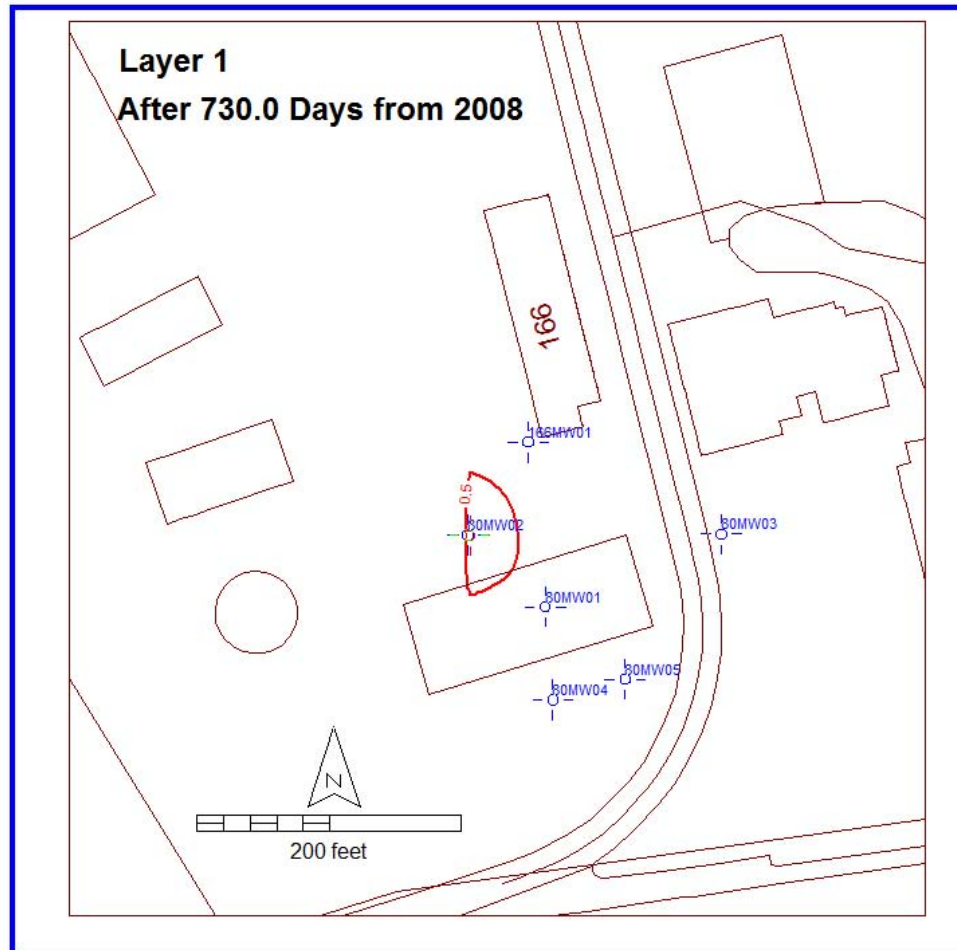
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



**Legend**



Simulated **0.5 ug/L** 2010 chlordane plume

**Figure I-9b: Simulated Concentrations – 2010**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

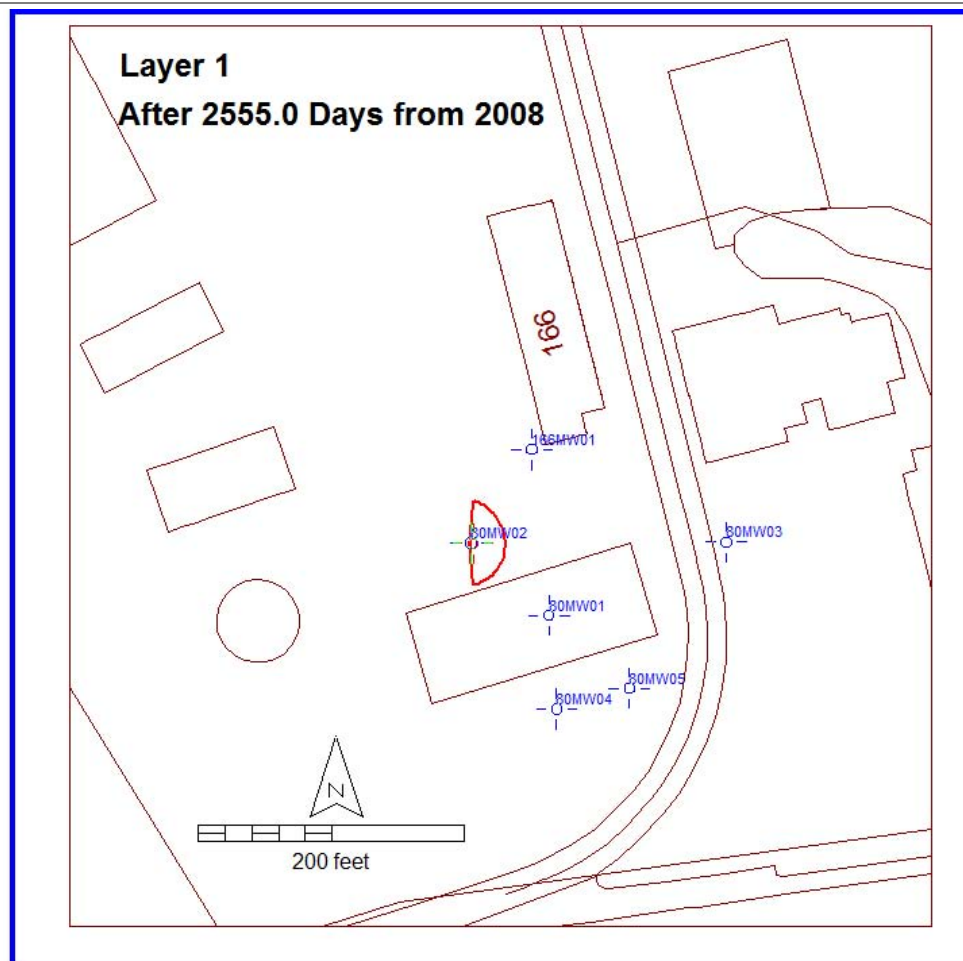
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



**Legend**



Simulated **0.5 ug/L** 2015 chlordane plume

**Figure I-9c: Simulated Concentrations – 2015**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

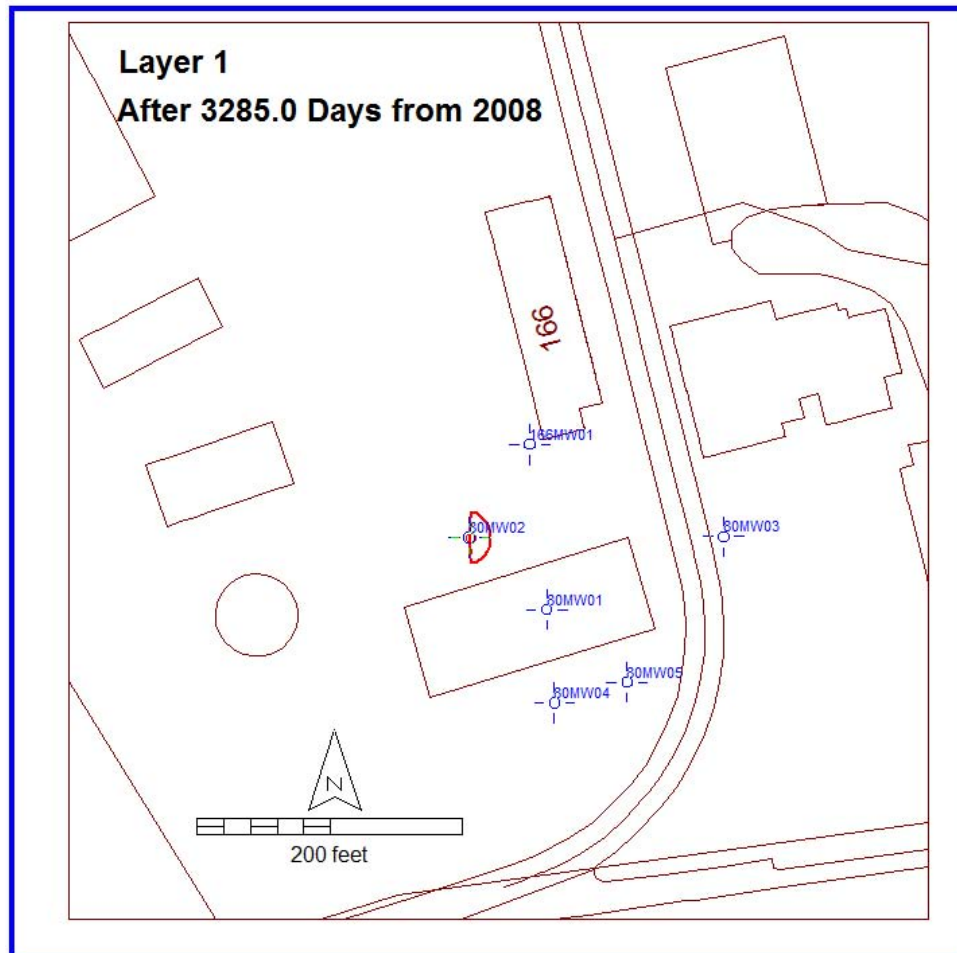
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



**Legend**



Simulated **0.5 ug/L** 2017 chlordane plume

**Figure I-9d: Simulated Concentrations – 2017**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

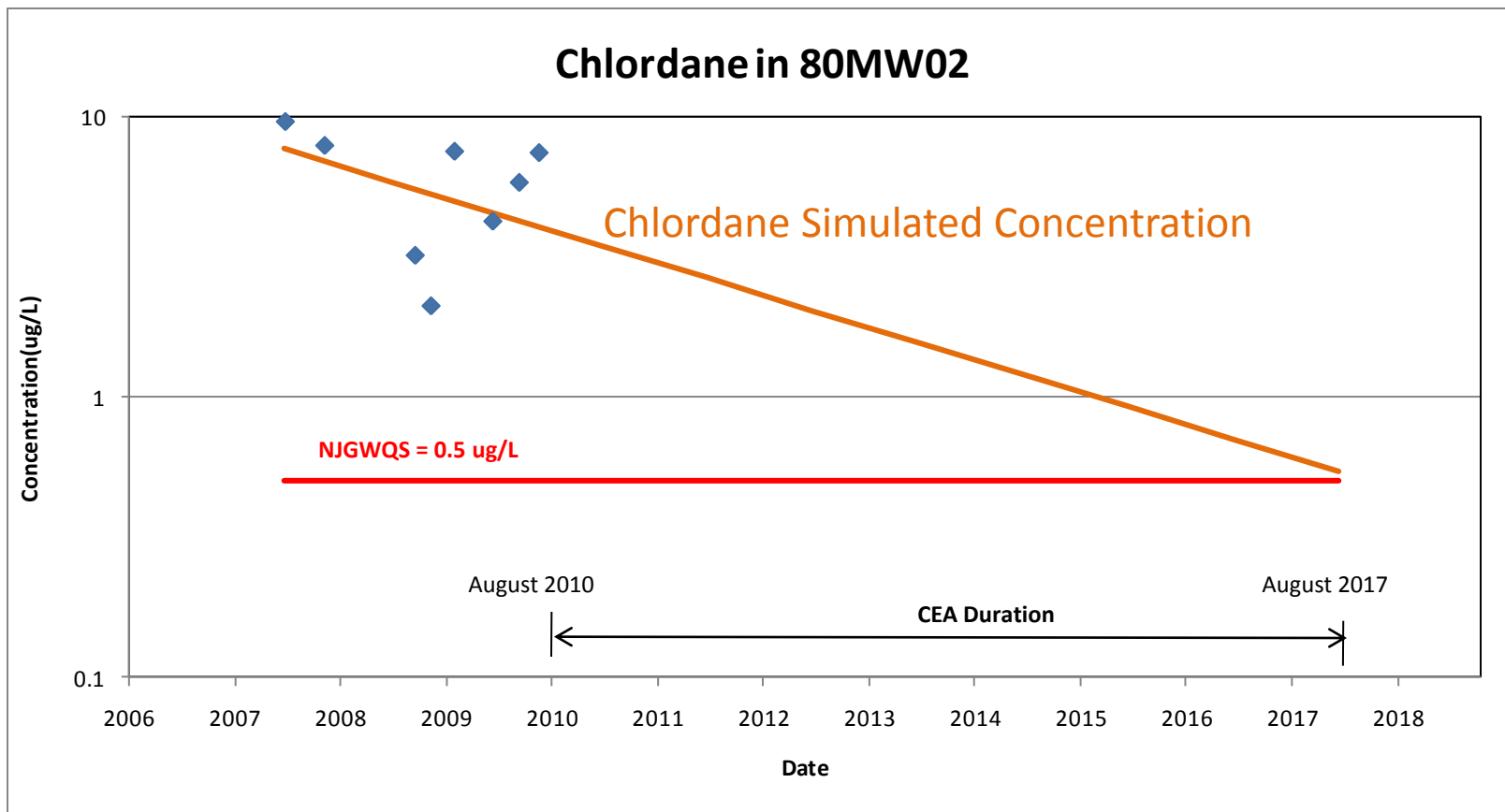
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures-I.pptx



#### Legend

80MW02 chlordane CEA Duration – Sept. 2010 to Sept. 2017 (~ 7 years)  
 Historical chlordane measured and simulated data

**Fig. I-10: Measured/Simulated 80MW02 Chlordane – Temp. Distribution**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**



SCALE: See Map

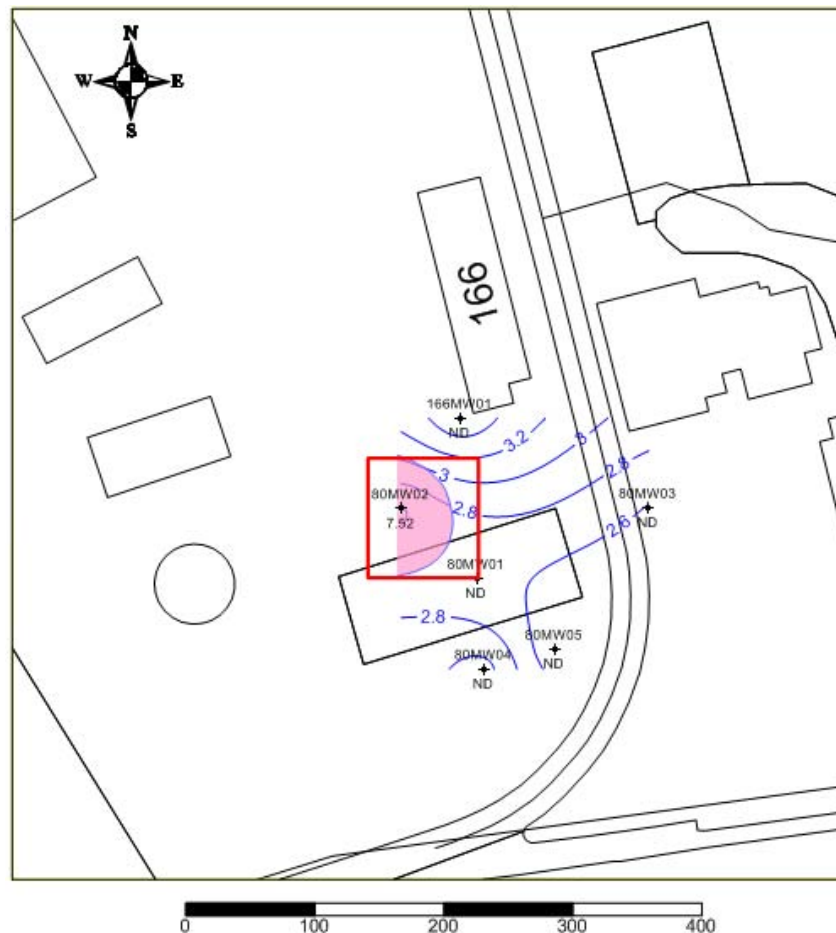
DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures\_4-15-2011.pptx



# **Legend**



August 2010 CEA based on August 2010 measured data  
Areas: Chlordane (10,000 sq. ft)

**Figure I-11: August 2010 CEA Extent**

**Fort Monmouth Buildings 80-166 (FTMM-56) – Oceanport, New Jersey**

**BRINKERHOFF**  
ENVIRONMENTAL SERVICES, INC.



SCALE: See Map

DATE: 5/24/2011

PREPARED BY: Liliana Cekan/John Nappi

CHECKED BY: Gary DiMartinis

PROJECT NO.: 09BR116

FILE NAME: 80-166-Figures\_4-15-2011.pptx

**Attachment II**  
**Diskette METADATA**

**Diskette Metadata**

Site Name: Fort Monmouth – Buildings 80-166

Case Name: FTMM-56

CSL ID # NA

Lead Program ID: G-0032

Lead Program (Letter Abbreviation)

Street Address of Facility

Municipality: Oceanport

County: Monmouth

Start Date: September 2010

Duration: 7 years (chlordanes), Indeterminate (lead)

Contaminants: Chlordane, Lead

CEA Depth: Approximately 20 feet below ground surface.

Engineering controls: NA

**Map Metadata ID Information**

Description: Site plan showing CEA boundary.

Abstract: Includes base map and the CEA boundary.

Purpose/Brief Description: Fulfill CEA requirements.

Supplemental Information: None.

Currentness Reference: Based upon current information, August 2010

**Map Metadata Data Quality Information**

Attribute Accuracy: Monitoring wells have surveyed coordinates. Base map accuracy visually consistent with site observations.

Quantitative Attribute Accuracy Assessment

Completeness Report: Base map provided by client's GIS department. Monitoring wells were surveyed.

Lineage: Manually digitized

Source Scale Denominator

Type of Source Media: Paper Maps

Source Currentness Reference

Process Date: May 2011

### **Map Metadata Spatial Data Organization**

Direct Spatial Reference Method: Vector

### **Map Metadata Spatial Reference**

Grid Coordinate System: NJ State Plane feet

Horizontal Datum Name: NAD83

### **Map Metadata Attribute Information**

Attribute Label

### **Map Metadata Reference Information**

Metadata Date: May 2011

Metadata Contact: Brinkerhoff Environmental Services, Inc.

### **Map Metadata Citation Information**

Originator: Brinkerhoff Environmental Services, Inc.

Title: Buildings 80-166

Author's Notes: Variable in Time.

**Map Metadata Contact Information**

Contact Person Primary: Gary G. DiMartinis, LSRP

Contact Organization: Brinkerhoff Environmental Services, Inc.

Contact Address: 1913 Atlantic Avenue, Suite R5, Manasquan, New Jersey 08736

Contact Voice Telephone: 732-223-2225

## **Exhibit F**

### **Current and Projected Ground Water Use**

## **EXHIBIT F**

### **1.0 Current and Projected Ground Water Use**

The New Jersey Department of Environmental Protection (NJDEP) Division of Water Supply (DWS) was contacted regarding the 25-year water use plan for the area. The NJDEP responded with the determination that there are no changes currently planned in the 25-year planning horizon. An E-mail message from Ian Snook, NJDEP DWS dated February 1, 2011 (Subject: CEA Language) is provided within this exhibit.

Pursuant to N.J.A.C (New Jersey Administrative Code) 7:26E-8.3(b)4, the Fort Monmouth Directorate of Public Works has identified all off-site wells within 2,000 feet of the Fort Monmouth perimeter. No production wells were identified within 2,000 feet of the Fort Monmouth boundary. The majority of off-site wells are monitoring wells associated with various remedial activities. Well search summary tables are provided within this exhibit.

-----Original Message-----

From: Ian Snook [mailto:Ian.Snook@dep.state.nj.us]  
Sent: Tuesday, February 01, 2011 2:48 PM  
To: dbreckenridge@GESonline.com; ryan.healey@marathonconsultants.com;  
Montgomery, John H CTR US USA  
Subject: CEA LANGUAGE

All,

Please be advised that for the purposes compliance with 7:26E-8.6(a)2.i. and ii. only, The Division of Remediation Management and Response and the Division of Water Supply have determined that there are no significant changes in the 25-year ground water use planning horizon for the state's aquifers relative to the purpose of this sub-section.

Therefore, persons responsible for biennial certifications for classification exception areas do not need to review The New Jersey Water Supply Master Plan, or contact the Bureau of Water Systems and Well Permitting (formerly the Bureau of Water Allocation) in order to comply with the above citation. This determination is effective through May, 2011.

Contact with the Bureau of Water Systems and Well Permitting, (formerly Bureau of Water Allocation) is still required under 7:26E-8.6 (a) 3. (well search). If you have any further questions or concerns, please feel free to contact me.

Please Contact Tracy Omrod @ (609) 984-6831 for additional information pertaining to the well search portion.

Have a good day,

Ian Snook  
Division of Water Supply  
P.O. Box 426  
Trenton, NJ  
08625  
Phone: (609) 984-2917  
Fax: (609) 292-1654

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner                 | Well Address                                    | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|----------------------------|-------------------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 55IW01/29-15008        | Eatontown Senior Housing   | 55 Wyckoff Road, Eatontown                      | 192.00                   | 177.00                        | 25.00                                | G        | NJDEP                 |
| 14/29-24953            | Shell Oil Company          | Block 110, Lot 25, Oceanport                    | 12.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 15/29-24953            | Shell Oil Company          | Block 110, Lot 25, Oceanport                    | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 16/29-24953            | Shell Oil Company          | Block 110, Lot 25, Oceanport                    | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 17/29-24953            | Shell Oil Company          | Block 110, Lot 25, Oceanport                    | 11.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 34/29-28236            | Boro of Eatontown          | Block 14, Lot 17, Eatontown                     | 20.00                    | 10.00                         | 12.10                                | M        | NJDEP                 |
| 35/29-23690            | Redacted - Privacy Act     | Orchid St., Block 73, Lot 36, Eatontown         | 67.00                    | 52.00                         | 16.00                                | D        | NJDEP                 |
| 36/29-23608            |                            | 92 Sunnybrook Dr., Little Silver                | 197.00                   | 191.00                        | 7.00                                 | D        | NJDEP                 |
| 37/29-27756            | V.J. Russo Reality         | 170 Avenue of the Commons, Little Silver        | 250.00                   | 245.00                        | 4.00                                 | G        | NJDEP                 |
| 38/29-26185            | Price Communications Corp. | 1 Registrar Plaza, Little Silver                | 28.00                    | 18.00                         | 5.00                                 | M        | NJDEP                 |
| 39/29-22571A.          | Redacted - Privacy Act     | Transfer Pl., Block 69.04, Lot 4, Little Silver | 50.00                    | 45.00                         | 5.00                                 | G        | NJDEP                 |
| 40/29-26704            |                            | 83 Sunnybank Drive, Little Silver               | 250.00                   | 210.00                        | 8.00                                 | D        | NJDEP                 |
| 41/29-29158            | Boro of Eatontown          | Block 14, Lot 17, Eatontown                     | 20.00                    | 10.00                         | 11.70                                | M        | NJDEP                 |
| 42/29-29159            | Boro of Eatontown          | Block 14, Lot 17, Eatontown                     | 18.00                    | 8.00                          | 10.10                                | M        | NJDEP                 |
| 43/29-21780            | Redacted - Privacy Act     | Relwof Ave., Block 98, Lots 1 & 2, Oceanport    | 45.00                    | 35.00                         | 2.00                                 | G        | NJDEP                 |
| 64/29-14244            |                            | 112 Orchard St., Oceanport                      | 323.00                   | 317.00                        | 16.00                                | D, G     | NJDEP                 |
| 65/29-13825            | NJ Transit Corp            | Silverside & Fairview Aves., Little Silver      | *                        | *                             | *                                    | M        | NJDEP                 |
| 100/29-50-840          | Redacted - Privacy Act     | 121 Horseneck Point Rd., Oceanport              | 15.00                    | 12.00                         | 5.00                                 | D        | NJDEP                 |
| 113/29-14180           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.38                                 | M        | NJDEP                 |
| 114/29-14181           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 5.10                                 | M        | NJDEP                 |
| 115/29-14182           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.47                                 | M        | NJDEP                 |
| 116/29-14183           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.39                                 | M        | NJDEP                 |
| 117/29-14184           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.75                                 | M        | NJDEP                 |
| 118/29-14185           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.10                                 | M        | NJDEP                 |
| 119/29-14186           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.82                                 | M        | NJDEP                 |
| 120/29-14187           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.30                                 | M        | NJDEP                 |
| 121/29-14188           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.54                                 | M        | NJDEP                 |
| 122/29-14189           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.34                                 | M        | NJDEP                 |
| 123/29-14190           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 4.22                                 | M        | NJDEP                 |
| 124/29-14191           | Shell Oil Company          | Rt. 35 & South Street, Eatontown                | 12.00                    | 2.00                          | 3.90                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
**May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner              | Well Address                           | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-------------------------|----------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 125/29-14192           | Shell Oil Company       | Rt. 35 & South Street, Eatontown       | 14.83                    | 4.00                          | 4.00                                 | E        | NJDEP                 |
| 129/29-23732           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 130/29-23733           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 131/29-23734           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 132/29-23735           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 133/29-24138           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 134/29-24139           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 135/29-24140           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 136/29-24141           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 137/29-27072           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 138/29-29208           | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 16.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| 138a/29-30283          | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | 6.00                                 | E        | NJDEP                 |
| 138b/29-30284          | Exxon Company, USA      | Branch & Sycamore Aves., Little Silver | 15.00                    | 5.00                          | 6.00                                 | E        | NJDEP                 |
| 139/29-12793           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 6.36                                 | M        | NJDEP                 |
| 140/29-12794           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 7.08                                 | M        | NJDEP                 |
| 141/29-12795           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 6.34                                 | M        | NJDEP                 |
| 142/29-12796           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 7.59                                 | M        | NJDEP                 |
| 143/29-12797           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 6.63                                 | M        | NJDEP                 |
| 144/29-12798           | Hunter Superior Service | 333 Willow Drive, Little Silver        | 10.00                    | 1.00                          | 6.07                                 | M        | NJDEP                 |
| 145/29-12785           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 146/29-12786           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 147/29-12787           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 148/29-12788           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 10.00                    | 1.00                          | *                                    | M        | NJDEP                 |
| 149/29-12789           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 150/29-12790           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 151/29-12792           | Citgo Oil Co.           | 700 Branch Ave. Little Silver          | 9.00                     | 1.00                          | *                                    | M        | NJDEP                 |
| 152/29-12793           | Mobil Oil Coporation    | 700 Branch Ave. Little Silver          | 10.00                    | 1.00                          | *                                    | M        | NJDEP                 |
| 153/29-12794           | Mobil Oil Coporation    | 700 Branch Ave. Little Silver          | 11.00                    | 1.00                          | *                                    | M        | NJDEP                 |
| 154/29-12795           | Mobil Oil Coporation    | 700 Branch Ave. Little Silver          | 11.00                    | 1.00                          | *                                    | M        | NJDEP                 |
| 155/29-25317           | Mobil Oil Coporation    | Highway 35 & Tinton Ave., Eatontown    | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 156/29-25316           | Mobil Oil Coporation    | Highway 35 & Tinton Ave., Eatontown    | 15.00                    | 2.00                          | 7.00                                 | M        | NJDEP                 |
| 157/29-25318           | Mobil Oil Coporation    | Highway 35 & Tinton Ave., Eatontown    | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 158/29-25319           | Mobil Oil Coporation    | Highway 35 & Tinton Ave., Eatontown    | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner               | Well Address                          | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|--------------------------|---------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 159/29-25320           | Mobil Oil Coporation     | Highway 35 & Tinton Ave., Eatontown   | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 160/29-26806           | Exxon Company, USA       | Highway 35 & Tinton Ave., Eatontown   | 16.00                    | 3.00                          | 4.70                                 | M        | NJDEP                 |
| 161/29-26807           | Exxon Company, USA       | Highway 35 & Tinton Ave., Eatontown   | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 162/29-26808           | Exxon Company, USA       | Highway 35 & Tinton Ave., Eatontown   | 15.00                    | 3.00                          | 8.20                                 | M        | NJDEP                 |
| 163/29-26809           | Exxon Company, USA       | Highway 35 & Tinton Ave., Eatontown   | 15.00                    | 3.00                          | 5.80                                 | M        | NJDEP                 |
| 164/29-28143           | Exxon Company, USA       | Highway 35 & Tinton Ave., Eatontown   | 12.00                    | 2.00                          | 2.35                                 | M        | NJDEP                 |
| 166/29-38652           | Redacted - Privacy Act   | 6 Bungalow Place, Oceanport           | 64.00                    | 39.00                         | 5.00                                 | G        | NJDEP                 |
| 167/29-54604           |                          | 33 Trinity Place, Oceanport           | 20.00                    | 5.00                          | 13.00                                | M        | NJDEP                 |
| 168/29-55912           |                          | 15 Carriage House Lane, Little Silver | 70.00                    | 60.00                         | 6.00                                 | G        | NJDEP                 |
| 169/29-52374           |                          | 28 Winding Way, Little Silver         | 10.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 170/29-50213           |                          | 71 Silverside Ave., Little Silver     | 14.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 171/29-49775           |                          | 59 Silverside Ave., Little Silver     | 12.00                    | 2.00                          | 5.00                                 | M        | NJDEP                 |
| 172/29-49719           |                          | 16 Rivers Edge Drive, Little Silver   | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 173/29-49911           | Honeywell International  | 118 Rt. 35, Eatontown                 | 15.00                    | 5.00                          | 8.00                                 | J        | NJDEP                 |
| 174/29-49912           | Honeywell International  | 118 Rt. 35, Eatontown                 | 17.00                    | 6.50                          | 10.00                                | J        | NJDEP                 |
| 175/29-49913           | Honeywell International  | 118 Rt. 35, Eatontown                 | 16.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |
| 176/29-50266           | Lowes Home Centers, Inc. | 118 Rt. 35, Eatontown                 | 6.00                     | 5.00                          | 0.00                                 | M        | NJDEP                 |
| 177/29-50267           | Lowes Home Centers, Inc. | 118 Rt. 35, Eatontown                 | 3.00                     | 2.00                          | 0.00                                 | M        | NJDEP                 |
| 178/29-49043           | Honeywell International  | 118 Rt. 35, Eatontown                 | 50.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |
| 179/29-49044           | Honeywell International  | 118 Rt. 35, Eatontown                 | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 180/29-49045           | Honeywell International  | 118 Rt. 35, Eatontown                 | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 181/29-49046           | Honeywell International  | 118 Rt. 35, Eatontown                 | 8.00                     | 6.50                          | 0.00                                 | M        | NJDEP                 |
| 182/29-49047           | Honeywell International  | 118 Rt. 35, Eatontown                 | 6.00                     | 4.50                          | 0.00                                 | M        | NJDEP                 |
| 183/29-49048           | Honeywell International  | 118 Rt. 35, Eatontown                 | 8.00                     | 6.50                          | 0.00                                 | M        | NJDEP                 |
| 184/29-49049           | Honeywell International  | 118 Rt. 35, Eatontown                 | 6.00                     | 4.50                          | 0.00                                 | M        | NJDEP                 |
| 185/29-49050           | Honeywell International  | 118 Rt. 35, Eatontown                 | 8.00                     | 6.50                          | 0.00                                 | M        | NJDEP                 |
| 186/29-49501           | Honeywell International  | 118 Rt. 35, Eatontown                 | 6.00                     | 4.50                          | 0.00                                 | M        | NJDEP                 |
| 187/29-49499           | Honeywell International  | 118 Rt. 35, Eatontown                 | 45.50                    | 20.50                         | *                                    | M        | NJDEP                 |
| 188/29-49038           | Honeywell International  | 118 Rt. 35, Eatontown                 | 18.00                    | 17.50                         | 11.00                                | J        | NJDEP                 |
| 189/29-49039           | Honeywell International  | 118 Rt. 35, Eatontown                 | 20.00                    | 9.50                          | 12.00                                | J        | NJDEP                 |
| 190/29-49040           | Honeywell International  | 118 Rt. 35, Eatontown                 | 20.00                    | 9.50                          | 12.00                                | J        | NJDEP                 |
| 191/29-49041           | Honeywell International  | 118 Rt. 35, Eatontown                 | 20.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner              | Well Address              | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-------------------------|---------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 192/29-49042           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |
| 193/29-49004           | Honeywell International | 118 Rt. 35, Eatontown     | 16.00                    | 5.50                          | 9.00                                 | J        | NJDEP                 |
| 194/29-49005           | Honeywell International | 118 Rt. 35, Eatontown     | 16.00                    | 5.50                          | 9.00                                 | J        | NJDEP                 |
| 195/29-49006           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 196/29-49007           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 197/29-49008           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 198/29-49009           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 199/29-49010           | Honeywell International | 118 Rt. 35, Eatontown     | 16.00                    | 5.50                          | 9.00                                 | J        | NJDEP                 |
| 200/29-49011           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 201/29-49012           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 202/29-49013           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 203/29-49025           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 9.50                          | 12.00                                | J        | NJDEP                 |
| 204/29-49026           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 205/29-49027           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 7.50                          | 10.00                                | J        | NJDEP                 |
| 206/29-49028           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |
| 207/29-49029           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 7.50                          | 10.00                                | J        | NJDEP                 |
| 208/29-49030           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 5.50                          | 10.00                                | J        | NJDEP                 |
| 209/29-49031           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 210/29-49032           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 211/29-49033           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 212/29-49034           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 213/29-49035           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 214/29-49036           | Honeywell International | 118 Rt. 35, Eatontown     | 15.00                    | 4.50                          | 8.00                                 | J        | NJDEP                 |
| 215/29-49037           | Honeywell International | 118 Rt. 35, Eatontown     | 18.00                    | 7.50                          | 11.00                                | J        | NJDEP                 |
| 216/29-48129           | Honeywell International | 118 Rt. 35, Eatontown     | 13.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| 217/29-48130           | Honeywell International | 118 Rt. 35, Eatontown     | 13.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| 218/29-48131           | Honeywell International | 118 Rt. 35, Eatontown     | 13.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| 219/29-48133           | Honeywell International | 118 Rt. 35, Eatontown     | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 220/29-48134           | Honeywell International | 118 Rt. 35, Eatontown     | 13.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| 221/29-48260           | Honeywell International | 118 Rt. 35, Eatontown     | 6.50                     | 1.50                          | 5.50                                 | Z        | NJDEP                 |
| 222/29-48261           | Honeywell International | 118 Rt. 35, Eatontown     | 6.50                     | 1.50                          | 5.50                                 | Z        | NJDEP                 |
| 223/29-56703           | Redacted - Privacy Act  | 36 Wyckoff Rd., Eatontown | 12.00                    | 2.00                          | 5.00                                 | M        | NJDEP                 |
| 224/29-45231           |                         | 23 Branch Ave., Oceanport | 30.00                    | n/a                           | 22.00                                | B        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

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|------------------------|------------------------|----------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 225/29-38172           | Redacted - Privacy Act | 1281 Eatontown Blvd., Oceanport  | 30.00                    | 10.00                         | 15.00                                | M        | NJDEP                 |
| 226/29-55303           |                        | 321 Broad Street, Eatontown      | 18.00                    | 8.00                          | 10.50                                | M        | NJDEP                 |
| 227/29-49598           |                        | 9 Monmouth Pl., Oceanport        | 12.00                    | 1.75                          | 3.00                                 | M        | NJDEP                 |
| 228/29-49597           |                        | 9 Monmouth Pl., Oceanport        | 12.00                    | 1.75                          | 3.00                                 | M        | NJDEP                 |
| 229/29-56337           |                        | 202 Broad Street, Eatontown      | 13.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| 230/29-39826           | Getty Properties Corp. | 157 Broad Street, Eatontown      | 20.00                    | 5.00                          | 14.00                                | M        | NJDEP                 |
| 231/29-38679           | Allied Signal          | 118 Rt. 35, Eatontown            | 17.50                    | 15.50                         | 0.00                                 | J        | NJDEP                 |
| 232/29-38680           | Allied Signal          | 118 Rt. 35, Eatontown            | 17.50                    | 15.50                         | 0.00                                 | J        | NJDEP                 |
| 233/29-38644           | Shell Oil Company      | 50 Rt. 35 South, Eatontown       | 16.00                    | 1.00                          | 2.00                                 | M        | NJDEP                 |
| 234/29-38643           | Shell Oil Company      | 50 Rt. 35 South, Eatontown       | 17.00                    | 2.00                          | 2.00                                 | M        | NJDEP                 |
| 235/29-38678           | Allied Signal          | 118 Rt. 35, Eatontown            | 14.00                    | 1.00                          | 2.00                                 | M        | NJDEP                 |
| 236/29-50624           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 237/29-50625           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 238/29-51377           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 239/29-51378           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 240/29-50621           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 241/29-50622           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 242/29-50623           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 243/29-50620           | Shell Oil Company      | 24 RT. 35 & South St., Eatontown | 15.00                    | 4.50                          | 5.00                                 | M        | NJDEP                 |
| 244/29-53180           | Exxon-Mobil Corp       | 160 Main Street, Eatontown       | 15.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 245/29-53181           | Exxon-Mobil Corp       | 160 Main Street, Eatontown       | 30.00                    | 25.00                         | 10.00                                | M        | NJDEP                 |
| 246/29-47022           | Equiva Services        | Rt. 35 & South Street, Eatontown | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 247/29-47023           | Equiva Services        | Rt. 35 & South Street, Eatontown | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 248/29-47024           | Equiva Services        | Rt. 35 & South Street, Eatontown | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 249/29-47025           | Equiva Services        | Rt. 35 & South Street, Eatontown | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 250/29-45153           | Exxon-Mobil Corp       | Rt.35 & Tinton Ave., Eatontown   | 13.00                    | 2.70                          | 5.00                                 | M        | NJDEP                 |
| 251/29-45251           | Exxon-Mobil Corp       | Rt. 35 & Tinton Ave., Eatontown  | 8.00                     | 2.70                          | 4.00                                 | M        | NJDEP                 |
| 252/29-45031           | Exxon-Mobil Corp       | Rt. 35 & Tinton Ave., Eatontown  | 8.00                     | 2.50                          | 4.00                                 | M        | NJDEP                 |
| 253/29-50796           | Redacted - Privacy Act | 35 Tinton Ave., Eatontown        | 23.00                    | 8.00                          | 15.00                                | M        | NJDEP                 |
| 254/29-49532           | Exxon-Mobil Corp       | Rt. 35 & Tinton Ave., Eatontown  | 15.00                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 255/29-41925           | Redacted - Privacy Act | 40 Silverbrook Road, Oceanport   | 11.00                    | 6.00                          | 6.00                                 | M        | NJDEP                 |
| 256/29-41926           |                        | 40 Silverbrook Road Oceanport    | 10.50                    | 6.00                          | 6.00                                 | M        | NJDEP                 |
| 257/29-41927           |                        | 40 Silverbrook Road, Oceanport   | 12.00                    | 6.00                          | 6.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner             | Well Address                      | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|------------------------|-----------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 258/29-41928           | Redacted - Privacy Act | 40 Silverbrook Road, Oceanport    | 11.50                    | 6.00                          | 6.00                                 | M        | NJDEP                 |
| 259/29-53263           |                        | 40 Silverbrook Road, Oceanport    | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 260/29-53264           |                        | 40 Silverbrook Road, Oceanport    | 12.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 261/29-46281           |                        | 25 Silverbrook Rd., Oceanport     | 12.00                    | 2.00                          | 9.00                                 | M        | NJDEP                 |
| 262/29-50184           |                        | 214 Silveside Ave., Little Silver | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 263/29-50185           |                        | 214 Silveside Ave., Little Silver | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 264/29-51835           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 265/29-51836           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 266/29-51839           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 267/29-51840           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 268/29-51838           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 269/29-51841           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 270/29-51842           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 271/29-51843           | Contemporary Motors    | 320 Willow Drive, Little Silver   | 12.00                    | 1.50                          | 5.00                                 | M        | NJDEP                 |
| 272/29-42928           | Redacted - Privacy Act | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 273/29-42926           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 274/29-42927           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 275/29-42914           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 276/29-42915           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 277/29-42916           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 278/29-42917           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 279/29-42918           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 280/29-42919           |                        | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 281/29-42920           |                        | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 282/29-42921           |                        | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 283/29-42922           |                        | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 284/29-42923           |                        | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 285/29-42924           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 286/29-42925           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 287/29-42909           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 288/29-42910           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 289?29-42911           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 290/29-42912           |                        | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

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|------------------------|--------------------------------------------|-----------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 291/29-42913           | Redacted - Privacy Act                     | 111 Riverview Rd. Little Silver   | 18.00                    | 15.00                         | 6.00                                 | E        | NJDEP                 |
| 292/29-48610           |                                            | 129 Riverview Ave, Little Silver  | 20.00                    | 4.70                          | 11.00                                | M        | NJDEP                 |
| 293/29-56270           |                                            | 163 Riverview Ave., Little Silver | 16.00                    | 5.80                          | 9.00                                 | M        | NJDEP                 |
| 294/29-53726           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 15.00                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 295/29-42092           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 13.00                    | 3.00                          | 6.50                                 | M        | NJDEP                 |
| 296/29-44552           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 297/29-44553           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 50.00                    | 40.00                         | 6.00                                 | M        | NJDEP                 |
| 298/29-44554           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 299/29-44555           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 300/29-41415           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 301/29-41416           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 302/29-42091           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 13.00                    | 3.00                          | 6.50                                 | M        | NJDEP                 |
| 303/29-41414           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 304/29-41413           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 305/29-41412           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 306/29-41411           | Javin Partnership                          | 24 Conover Pl., Little Silver     | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 307/29-39942           | Exxon-Mobil Corp<br>Redacted - Privacy Act | 111 Riverview Rd. Little Silver   | 19.00                    | 2.75                          | 3.50                                 | E        | NJDEP                 |
| 308/29-53247           |                                            | 720 Branch Ave., Little Silver    | 15.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| 312/29-42937           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 313/29-42938           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 314/29-42935           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 315/29-42936           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 316/29-42931           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 317/29-42932           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 318/29-42933           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 319/29-42934           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 320/29-42930           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 321/29-42929           |                                            | 111 Riverview Rd. Little Silver   | 19.00                    | 16.00                         | 7.00                                 | E, W     | NJDEP                 |
| 322/29-48641           |                                            | 52 South Street, Eatontown        | 15.00                    | 4.50                          | 7.00                                 | M        | NJDEP                 |
| 323/29-46904           | Equiva Services                            | 1 Main Street, Oceanport          | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
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|------------------------|------------------------|----------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 324/29-45037           | Redacted - Privacy Act | 13 Branch Ave., Oceanport  | 35.00                    | 25.00                         | 20.00                                | M        | NJDEP                 |
| 325/29-46457           |                        | 6 Main Street, Oceanport   | 70.00                    | 60.00                         | 6.00                                 | G        | NJDEP                 |
| 326/29-38811           |                        | 62 Asbury Ave., Oceanport  | 65.00                    | 42.00                         | 6.00                                 | G        | NJDEP                 |
| 327/29-54236           |                        | 43 Bradley Ave., Oceanport | 12.00                    | 2.75                          | 5.00                                 | M        | NJDEP                 |
| 814-1/29-26939         | US Army, Ft. Monmouth  | Bldg. 814, Main Post       | 14.00                    | 4.00                          | 4.00                                 | M/S      | NJDEP                 |
| 750-1/29-28992         | US Army, Ft. Monmouth  | Bldg. 750, Main Post       | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| 750-2/29-28993         | US Army, Ft. Monmouth  | Bldg. 750, Main Post       | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| 750-3/29-28994         | US Army, Ft. Monmouth  | Bldg. 750, Main Post       | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| 750-4/29-28995         | US Army, Ft. Monmouth  | Bldg. 750, Main Post       | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| 699-1/29-23677-1       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 699-2/29-23678-9       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 17.00                    | 15.00                         | 5.00                                 | M        | NJDEP                 |
| 699-3/29-23697         | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 14.50                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| 699-4/29-23680-7       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 699-5/29-23808         | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| 699-6/29-23809-9       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 2.00                          | 4.50                                 | M        | NJDEP                 |
| 699-7/29-23810         | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 3.00                          | 3.00                                 | M        | NJDEP                 |
| 699-8/29-23811-1       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 699-9/29-24639         | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 699-10/29-24640        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 14.00                    | 1.00                          | 3.00                                 | M        | NJDEP                 |
| 699-12/29-28907        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 13.50                    | 3.50                          | 7.10                                 | M        | NJDEP                 |
| 699-15/29-33753        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 13.50                    | 3.50                          | *                                    | M        | NJDEP                 |
| 699-16/29-33757        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 13.50                    | 3.50                          | *                                    | M        | NJDEP                 |
| 699RW11/29-28031       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.00                    | 5.00                          | *                                    | E        | NJDEP                 |
| 600-01/29-30968        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 616-01/29-33760        | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 699RW03/29-43891       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.00                    | 5.00                          | *                                    | E        | NJDEP                 |
| 699RW04/29-43892       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 19.00                    | 4.00                          | *                                    | E        | NJDEP                 |
| 699RW05/29-56509       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 15.00                    | 4.50                          | *                                    | E        | NJDEP                 |
| 699SP01/29-43893       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.50                    | 18.00                         | *                                    | J        | NJDEP                 |
| 699SP02/29-43894       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.20                    | 17.70                         | *                                    | J        | NJDEP                 |
| 699SP03/29-43895       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 19.30                    | 16.80                         | *                                    | J        | NJDEP                 |
| 699SP04/29-43896       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 19.70                    | 16.80                         | *                                    | J        | NJDEP                 |
| 699SP05/29-43897       | US Army, Ft. Monmouth  | Bldg. 699, Main Post       | 20.20                    | 17.70                         | *                                    | J        | NJDEP                 |

**Fort Monmouth, New Jersey**  
**May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner            | Well Address            | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------|-------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 699SP06/29-43898       | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 20.20                    | 17.70                         | *                                    | J        | NJDEP                 |
| 699SP07/29-43899       | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 19.40                    | 16.90                         | *                                    | J        | NJDEP                 |
| 699SP08/20-43900       | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 19.40                    | 16.00                         | *                                    | J        | NJDEP                 |
| 699SP09/29-56512       | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 18.00                    | 16.00                         | *                                    | J        | NJDEP                 |
| 699SP10/29-56513       | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 18.00                    | 16.00                         | *                                    | J        | NJDEP                 |
| 699VP-10/29-56511      | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 13.00                    | 3.00                          | *                                    | J        | NJDEP                 |
| 699VP-11/29-56510      | US Army, Ft. Monmouth | Bldg. 699, Main Post    | 13.00                    | 3.00                          | *                                    | J        | NJDEP                 |
| 108MW01/29-29739       | US Army, Ft. Monmouth | Bldg. 108, Main Post    | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 108MW02/29-29740       | US Army, Ft. Monmouth | Bldg. 108, Main Post    | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 108MW03/29-29741       | US Army, Ft. Monmouth | Bldg. 108, Main Post    | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 108MW04/29-33762       | US Army, Ft. Monmouth | Bldg. 108, Main Post    | 12.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| M2MW01/29-32584        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 22.00                    | 7.00                          | 15.00                                | M        | NJDEP                 |
| M2MW02/29-32585        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 17.00                    | 7.00                          | 9.00                                 | M        | NJDEP                 |
| M2MW03/29-32586        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW04/29-37988        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 19.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| M2MW05/29-39285        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 13.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M2MW06/29-39184        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW07/29-39183        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW08/29-39182        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| MWMW09/29-39181        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW10/29-39180        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW11/29-42769        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 49.00                    | 29.00                         | 11.00                                | M        | NJDEP                 |
| M2MW12/29-42770        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 50.00                    | 30.00                         | 11.50                                | M        | NJDEP                 |
| M2MW13/29-42771        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW14/29-42562        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 12.50                                | M        | NJDEP                 |
| M2MW15/29-42773        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW16/29-42774        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW17/29-42775        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW18/29-42776        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW19/29-42777        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 50.00                    | 30.00                         | 12.00                                | M        | NJDEP                 |
| M2MW20/29-42778        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 50.00                    | 30.00                         | 10.00                                | M        | NJDEP                 |
| M2MW21/29-42779        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW22/29-42780        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
**May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner            | Well Address            | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------|-------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| M2MW23/29-42781        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M2MW24/29-42772        | US Army, Ft. Monmouth | M-2 Landfill, Main Post | 20.00                    | 5.00                          | 9.00                                 | M        | NJDEP                 |
| M3MW04/29-32658        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 23.00                    | 8.00                          | 10.00                                | M        | NJDEP                 |
| M3MW05/29-32569        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 16.00                    | 6.00                          | 6.50                                 | M        | NJDEP                 |
| M3MW06/29-32570        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 5.00                          | 6.50                                 | M        | NJDEP                 |
| M3MW07/29-39173        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M3MW08/29-39174        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M3MW09/29-39175        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M3MW10/29-39176        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M3MW11/29-39145        | US Army, Ft. Monmouth | M-3 Landfill, Main Post | 15.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| M4MW07/29-32571        | US Army, Ft. Monmouth | M-4 Landfill, Main Post | 15.50                    | 5.50                          | 6.00                                 | M        | NJDEP                 |
| M4MW08/29-32572        | US Army, Ft. Monmouth | M-4 Landfill, Main Post | 19.00                    | 4.00                          | 5.50                                 | M        | NJDEP                 |
| M4MW09/29-32573        | US Army, Ft. Monmouth | M-4 Landfill, Main Post | 22.00                    | 7.00                          | 4.50                                 | M        | NJDEP                 |
| M4MW10/29-41644        | US Army, Ft. Monmouth | M-4 Landfill, Main Post | 18.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| M5MW10/29-32574        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 15.00                    | 5.00                          | 2.50                                 | M        | NJDEP                 |
| M5MW11/29-32575        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 15.00                    | 5.00                          | 5.00                                 | M        | NJDEP                 |
| M5MW12/29-39179        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M5MW13/29-39178        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 20.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M5MW14/29-39177        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 20.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| M5MW15/29-40120        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 18.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW16/29-40121        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 16.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW18/29-40123        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 18.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW19/29-40124        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 18.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW20/29-40124        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 14.00                    | 4.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW23/29-40125        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 18.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| M5MW24/29-41724        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 38.00                    | 13.00                         | 7.50                                 | M-6      | NJDEP                 |
| M5MW25/29-40126        | US Army, Ft. Monmouth | M-5 Landfill, Main Post | 18.00                    | 3.00                          | 7.00                                 | M        | NJDEP                 |
| M8MW12/29-32560        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| M8MW13/29-32561        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 16.00                    | 5.00                          | 3.00                                 | M        | NJDEP                 |
| M8MW14/29-32562        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 16.00                    | 5.00                          | 6.50                                 | M        | NJDEP                 |
| M8MW15/29-32563        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 16.00                    | 4.50                          | 3.00                                 | M        | NJDEP                 |
| M8MW01/29-31776        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 17.50                    | 2.50                          | 12.00                                | M        | NJDEP                 |
| M8MW16/29-39146        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| M8MW17/29-39147        | US Army, Ft. Monmouth | M-8 Landfill, Main Post | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
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|------------------------|-----------------------|--------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| M8MW18/29-39148        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 18.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| M8MW19/29-39149        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 18.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| M8MW20/29-39150        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M8MW21/29-39151        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M8MW22/29-39152        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| M8MW23/29-40128        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 15.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M8MW24/29-40127        | US Army, Ft. Monmouth | M-8 Landfill, Main Post  | 38.00                    | 13.00                         | 7.50                                 | M        | NJDEP                 |
| M12MW16/29-32576       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 14.50                    | 4.50                          | 2.00                                 | M        | NJDEP                 |
| M12MW17/29-32577       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 14.50                    | 4.50                          | 3.00                                 | M        | NJDEP                 |
| M12MW18/29-32578       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 14.50                    | 4.50                          | 2.00                                 | M        | NJDEP                 |
| M12MW19/29-41779       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW20/29-41780       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW21/29-41781       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW22/29-41782       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW23/29-41783       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW24/29-41784       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW25/29-41785       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M12MW26/29-41856       | US Army, Ft. Monmouth | M-12 Landfill, Main Post | 18.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| M14MW19/29-32579       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 15.00                    | 5.00                          | 5.50                                 | M        | NJDEP                 |
| M14MW20/29-32580       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 15.50                    | 4.50                          | 4.50                                 | M        | NJDEP                 |
| M14MW21/29-32581       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 16.00                    | 6.00                          | 6.00                                 | M        | NJDEP                 |
| M14MW22/29-41787       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 18.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| M14MW23/29-41786       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 18.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| M14MW24/29-41788       | US Army, Ft. Monmouth | M-14 Landfill, Main Post | 18.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| M18MW24/29-32565       | US Army, Ft. Monmouth | M-18 Landfill, Main Post | 15.50                    | 4.50                          | 2.00                                 | M        | NJDEP                 |
| M18MW25/29-32566       | US Army, Ft. Monmouth | M-18 Landfill, Main Post | 15.50                    | 4.50                          | 2.50                                 | M        | NJDEP                 |
| 117MW01/29-31772       | US Army, Ft. Monmouth | Bldg. 117, Main Post     | 12.50                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 296MW01/29-20979       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 15.00                    | 2.00                          | 3.50                                 | M        | NJDEP                 |
| 296MW02/29-30980       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 12.50                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 296MW03/29-30975       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 12.50                    | 2.00                          | 2.50                                 | M        | NJDEP                 |
| 296MW04/29-33989       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 10.00                    | 0.50                          | 0.50                                 | M        | NJDEP                 |
| 296MW06/29-30976       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 12.50                    | 2.00                          | 1.50                                 | M        | NJDEP                 |
| 296MW07/29-30973       | US Army, Ft. Monmouth | Bldg. 296, Main Post     | 12.50                    | 1.50                          | 3.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
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|------------------------|-----------------------|-----------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 296MW08/29-30974       | US Army, Ft. Monmouth | Bldg. 296, Main Post  | 12.00                    | 1.50                          | 3.00                                 | M        | NJDEP                 |
| 290MW01/29-30961       | US Army, Ft. Monmouth | Bldg. 290, Main Post  | 12.50                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 290MW02/29-33761       | US Army, Ft. Monmouth | Bldg. 290, Main Post  | 11.50                    | 1.50                          | 4.00                                 | M        | NJDEP                 |
| 80MW01/29-31774        | US Army, Ft. Monmouth | Bldg. 80, Main Post   | 13.00                    | 3.00                          | 3.00                                 | M        | NJDEP                 |
| 80MW02/29-43199        | US Army, Ft. Monmouth | Bldg. 80, Main Post   | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 80MW03/29-43201        | US Army, Ft. Monmouth | Bldg. 80, Main Post   | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 80MW04/29-43200        | US Army, Ft. Monmouth | Bldg. 80, Main Post   | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 80MW05/29-43202        | US Army, Ft. Monmouth | Bldg. 80, Main Post   | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 166MW01/29-31773       | US Army, Ft. Monmouth | Bldg. 166, Main Post  | 13.00                    | 0.00                          | 3.00                                 | M        | NJDEP                 |
| 1122MW01/29-33755      | US Army, Ft. Monmouth | Bldg. 1122, Main Post | 18.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 1122MW02/29-33754      | US Army, Ft. Monmouth | Bldg. 1122, Main Post | 15.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| 1122MW03/29-43196      | US Army, Ft. Monmouth | Bldg. 1122, Main Post | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 1122MW04/29-43197      | US Army, Ft. Monmouth | Bldg. 1122, Main Post | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 1122MW05/29-43198      | US Army, Ft. Monmouth | Bldg. 1122, Main Post | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 283MW02/29-40887       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 20.00                    | 5.00                          | 9.00                                 | M        | NJDEP                 |
| 283MW01/29-40367       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 25.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| 283MW03/29-41650       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 20.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| 283MW04/29-50701       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 18.00                    | 3.00                          | 7.50                                 | M        | NJDEP                 |
| 283MW05/29-50702       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 18.00                    | 3.00                          | 7.50                                 | M        | NJDEP                 |
| 283MW06/29-50703       | US Army, Ft. Monmouth | Bldg. 283, Main Post  | 18.00                    | 3.00                          | 7.50                                 | M        | NJDEP                 |
| 812MW01/29-42572       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 50.00                    | 30.00                         | 2.00                                 | M        | NJDEP                 |
| 812MW02/29-42573       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 50.00                    | 30.00                         | 7.00                                 | M        | NJDEP                 |
| 812MW03/29-42574       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 50.00                    | 30.00                         | 8.00                                 | M        | NJDEP                 |
| 812MW04/29-42575       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 7.00                     | 2.00                          | 5.50                                 | M        | NJDEP                 |
| 812MW05/29-42576       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 18.00                    | 8.00                          | 10.00                                | M        | NJDEP                 |
| 812MW06/29-42577       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 16.00                    | 6.00                          | 8.00                                 | M        | NJDEP                 |
| 812MW07/29-42578       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 18.00                    | 8.00                          | 11.50                                | M        | NJDEP                 |
| 812MW08/29-42579       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 16.00                    | 6.00                          | 6.50                                 | M        | NJDEP                 |
| 812MW09/29-42580       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 16.00                    | 6.00                          | 5.00                                 | M        | NJDEP                 |
| 812MW10/29-42581       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 16.00                    | 6.00                          | 6.00                                 | M        | NJDEP                 |
| 812MW11/29-42582       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 812MW12/29-42583       | US Army, Ft. Monmouth | Bldg. 812, Main Post  | 16.00                    | 6.00                          | 5.00                                 | M        | NJDEP                 |
| 1108MW01/29-31785      | US Army, Ft. Monmouth | Bldg. 1108, Main Post | 15.00                    | 5.00                          | 6.34                                 | M/S      | NJDEP                 |

**Fort Monmouth, New Jersey**  
**May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner            | Well Address                       | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------|------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 812MW13/29-42584       | US Army, Ft. Monmouth | Bldg. 812, Main Post               | 19.00                    | 9.00                          | 10.00                                | M        | NJDEP                 |
| 812MW14/29-42888       | US Army, Ft. Monmouth | Bldg. 812, Main Post               | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 886MW01/29-47835       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 886MW02/29-47836       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 886MW03/29-47837       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 886MW04/29-47838       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 886MW05/29-47839       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| 886RW01/29-47840       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW02/29-47841       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW03/29-47842       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW04/29-47843       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW05/29-47844       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW06/29-47845       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW07/29-47846       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 886RW08/29-47847       | US Army, Ft. Monmouth | Bldg. 886, MainPost                | 17.00                    | 2.00                          | 6.00                                 | E        | NJDEP                 |
| 287MW01/29-30964       | US Army, Ft. Monmouth | Bldg. 287, Main Post               | 15.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 800MW01/29-42459       | US Army, Ft. Monmouth | Bldg. 800, Main Post               | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| 949MW01/29-42458       | US Army, Ft. Monmouth | Bldg. 949, Main Post               | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 1220MW01/29-30965      | US Army, Ft. Monmouth | Bldg. 1220, Main Post              | 15.00                    | 2.00                          | 8.00                                 | M        | NJDEP                 |
| 430MW01/29-33756       | US Army, Ft. Monmouth | Bldg. 430, Main Post               | 12.50                    | 2.50                          | 4.00                                 | M        | NJDEP                 |
| 210MW01/29-31972       | US Army, Ft. Monmouth | Bldg. 210, Main Post               | 12.00                    | 2.00                          | *                                    | M        | NJDEP                 |
| 482MW01/29-33759       | US Army, Ft. Monmouth | Bldg. 482, Main Post               | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 208BMW01/29-30963      | US Army, Ft. Monmouth | Bldg. 208, Main Post               | 15.00                    | 2.00                          | 3.50                                 | M        | NJDEP                 |
| 689MW01/29-30966       | US Army, Ft. Monmouth | Bldg. 689, Main Post               | 12.50                    | 2.00                          | *                                    | M/S      | NJDEP                 |
| 689MW02/29-30967       | US Army, Ft. Monmouth | Bldg. 689, Main Post               | 12.50                    | 2.00                          | *                                    | M/S      | NJDEP                 |
| 616MW01/29-33760       | US Army, Ft. Monmouth | Bldg. 616, Main Post               | 14.00                    | 4.00                          | *                                    | M        | NJDEP                 |
| 207MW01/29-30957       | US Army, Ft. Monmouth | Bldg. 207, Main Post               | 15.00                    | 1.50                          | *                                    | M/S      | NJDEP                 |
| Gate6MW01/29-37520     | US Army, Ft. Monmouth | Gate 6 (Nicodemus Gate), Main Post | 52.00                    | 42.50                         | 19.00                                | D        | NJDEP                 |
| BWMW01B/29-32587       | US Army, Ft. Monmouth | Background well #1, Main Post      | 14.00                    | 4.00                          | 2.50                                 | M        | NJDEP                 |
| BWMW02B/29-32588       | US Army, Ft. Monmouth | Background well #2, Main Post      | 20.00                    | 10.00                         | 10.50                                | M        | NJDEP                 |
| BWMW03B/29-32589       | US Army, Ft. Monmouth | Background well #3, Main Post      | 26.00                    | 16.00                         | 10.00                                | M        | NJDEP                 |
| BWMW04B/29-32567       | US Army, Ft. Monmouth | Background well #4, Main Post      | 16.00                    | 5.00                          | 5.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
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|------------------------|----------------------------|-----------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| BWMW05B/29-32583       | US Army, Ft. Monmouth      | Background well #5, Main Post           | 15.50                    | 4.50                          | 4.00                                 | M        | NJDEP                 |
| BWMW06B/29-32602       | US Army, Ft. Monmouth      | Background well #6, Main Post           | 15.00                    | 4.00                          | 3.50                                 | M        | NJDEP                 |
| BWMW07B/29-32604       | US Army, Ft. Monmouth      | Background well #7, Main Post           | 16.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| BWMW08B/29-32598       | US Army, Ft. Monmouth      | Background well #8, Main Post           | 15.00                    | 5.00                          | 3.50                                 | M        | NJDEP                 |
| BWMW09B/29-32603       | US Army, Ft. Monmouth      | Background well #9, Main Post           | 15.00                    | 5.00                          | 5.00                                 | M        | NJDEP                 |
| BWMW10B/29-32605       | US Army, Ft. Monmouth      | Background well #10, Main Post          | 14.50                    | 4.50                          | 3.50                                 | M        | NJDEP                 |
| 161MW01/29-31775       | US Army, Ft. Monmouth      | Bldg.161, Main Post                     | 12.00                    | 2.00                          | *                                    | M        | NJDEP                 |
| 697MW01/29-31776       | US Army, Ft. Monmouth      | Bldg. 697, Main Post                    | 17.50                    | 2.50                          | *                                    | M        | NJDEP                 |
| 206MW01/29-31784       | US Army, Ft. Monmouth      | Bldg. 206, Main Post                    | 12.50                    | 2.50                          | *                                    | M        | NJDEP                 |
| 65AMW01/29-29938       | US Army, Ft. Monmouth      | Bldg. 65a, Main Post                    | 12.00                    | 2.00                          | *                                    | M        | NJDEP                 |
| CenterMW01/29-39123    | Birchwood Real Estate Dev. | Center Street (lot 22; b 46), Eatontown | 200.00                   | 180.00                        | 13.00                                | D        | NJDEP                 |
| RoseMW13/29-43830      | Getty Properties Corp.     | 30 Rose Ct., Eatontown                  | 17.00                    | 6.80                          | 13.00                                | M        | NJDEP                 |
| E117MW01/29-33219      | Boro of Eatontown          | 117 Broad Street, Eatontown             | 19.00                    | 9.00                          | 13.00                                | M        | NJDEP                 |
| E117MW09/29-33220      | Boro of Eatontown          | 117 Broad Street, Eatontown             | 19.00                    | 9.00                          | 13.50                                | M        | NJDEP                 |
| E117MW04/29-31968      | Boro of Eatontown          | 117 Broad Street, Eatontown             | 20.00                    | 10.00                         | 13.00                                | M        | NJDEP                 |
| TRW-1/29-37605         | Allied Signal              | 118 Rt. 35, Eatontown                   | 22.00                    | 5.75                          | 6.00                                 | E        | NJDEP                 |
| TRW-2/29-37602         | Allied Signal              | 118 Rt. 35, Eatontown                   | 22.00                    | 5.75                          | 6.00                                 | E        | NJDEP                 |
| AlliedU-2/29-37604     | Allied Signal              | 118 Rt. 35, Eatontown                   | 22.00                    | 5.75                          | 6.00                                 | E        | NJDEP                 |
| RW-6/29-35130          | Allied Signal              | 118 Rt. 35, Eatontown                   | 46.00                    | 4.00                          | 9.00                                 | E        | NJDEP                 |
| RW-2/29-35129          | Allied Signal              | 118 Rt. 35, Eatontown                   | 48.00                    | 4.00                          | 8.50                                 | E        | NJDEP                 |
| RW-4/29-35128          | Allied Signal              | 118 Rt. 35, Eatontown                   | 47.00                    | 4.00                          | 9.00                                 | E        | NJDEP                 |
| RW-3/29-35127          | Allied Signal              | 118 Rt. 35, Eatontown                   | 49.50                    | 4.00                          | 8.50                                 | E        | NJDEP                 |
| ASMW03/29-22120        | Allied Signal              | 118 Rt. 35, Eatontown                   | 40.00                    | 30.00                         | *                                    | E        | NJDEP                 |
| ASMW02/29-22104        | Allied Signal              | 118 Rt. 35, Eatontown                   | 45.00                    | 35.00                         | *                                    | E        | NJDEP                 |
| ASMW01/29-221030       | Allied Signal              | 118 Rt. 35, Eatontown                   | 40.00                    | 30.00                         | *                                    | E        | NJDEP                 |
| E117MW03/29-31967      | Boro of Eatontown          | 117 Broad Street, Eatontown             | 20.00                    | 10.00                         | 13.00                                | M        | NJDEP                 |
| 21LewisMW04/29-33772   | Boro of Eatontown          | 21 Lewis Street                         | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 21LewisMW05/29-33773   | Boro of Eatontown          | 21 Lewis Street                         | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| E117MW05/29-31969      | Boro of Eatontown          | 117 Broad Street, Eatontown             | 20.00                    | 10.00                         | 13.00                                | M        | NJDEP                 |
| 21 LewisMW03/29-33771  | Boro of Eatontown          | 21 Lewis Street                         | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 20 LewisMW08/29-33770  | Boro of Eatontown          | 20 Lewis Street                         | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 20 LewisMW07/29-33769  | Boro of Eatontown          | 20 Lewis Street                         | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| EMMW01/29-37524        | Exxon-Mobil Corp           | Rt. 35 & Tinton Ave., Eatontown         | 14.00                    | 2.00                          | 5.00                                 | M        | NJDEP                 |
| DW-3/29-32841          | Allied Signal              | 118 Rt. 35, Eatontown                   | 56.00                    | 44.00                         | 9.20                                 | M        | NJDEP                 |

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|------------------------|-----------------------------|-------------------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| DW-2/29-32840          | Allied Signal               | 118 Rt. 35, Eatontown                           | 52.00                    | 40.00                         | 9.00                                 | M        | NJDEP                 |
| SW-1/29-32839          | Allied Signal               | 118 Rt. 35, Eatontown                           | 12.00                    | 2.00                          | 3.40                                 | M        | NJDEP                 |
| DW-1/29-32838          | Allied Signal               | 118 Rt. 35, Eatontown                           | 38.00                    | 24.00                         | 3.50                                 | M        | NJDEP                 |
| WGIG01/29-22526        | Redacted - Privacy Act      | 10 Alwin Terrace, Little Silver                 | 173.00                   | 158.00                        | 6.00                                 | G        | NJDEP                 |
| 1076MW01/29-26940      | US Army, Ft. Monmouth       | Bldg. 1076, Main Post                           | 15.00                    | 3.00                          | 5.50                                 | M        | NJDEP                 |
| 1076MW02/29-26941      | US Army, Ft. Monmouth       | Bldg. 1076, Main Post                           | 14.00                    | 4.00                          | 5.00                                 | M        | NJDEP                 |
| 1076MW03/29-26942      | US Army, Ft. Monmouth       | Bldg. 1076, Main Post                           | 15.00                    | 5.00                          | 6.00                                 | M        | NJDEP                 |
| LMW01/49-000551        | US Army, Ft. Monmouth       | Landfill, Main Post                             | 9.85                     | 3.05                          | 5.08                                 | M        | NJDEP                 |
| LMW02/49-000552        | US Army, Ft. Monmouth       | Landfill, Main Post                             | 16.99                    | 1.30                          | *                                    | M        | NJDEP                 |
| LMW03/49-000553        | US Army, Ft. Monmouth       | Landfill, Main Post                             | 16.43                    | 1.62                          | 10.83                                | M        | NJDEP                 |
| LMW04/49-000554        | US Army, Ft. Monmouth       | Landfill, Main Post                             | 10.25                    | 1.90                          | *                                    | M        | NJDEP                 |
| 282MW01/29-30962       | US Army, Ft. Monmouth       | Bldg. 282, Main Post                            | 15.00                    | 4.50                          | 4.00                                 | M/S      | NJDEP                 |
| 65IW01/29-08438        | Redacted - Privacy Act      | 65 Monmouth Blvd., Oceanport                    | 58.00                    | 50.00                         | 13.00                                | D        | NJDEP                 |
| 980MW01/29-40077       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls                | 12.50                    | 2.50                          | 3.00                                 | M        | NJDEP                 |
| 980MW02/29-40078       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls                | 14.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 980MW03/29-40079       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls                | 12.00                    | 2.00                          | 4.80                                 | M        | NJDEP                 |
| 980MW05/29-51884       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls                | 13.00                    | 3.00                          | 3.50                                 | M        | NJDEP                 |
| 980MW06/29-51885       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls                | 13.00                    | 3.00                          | 3.00                                 | M        | NJDEP                 |
| NRDMW07/29-39066       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 15.00                    | 4.50                          | 8.00                                 | M        | NJDEP                 |
| NRDMW08/29-39067       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 64.00                    | 44.00                         | 12.00                                | M        | NJDEP                 |
| NRDMW09/29-40631       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 15.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| NRDMW10/29-41633       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW11/29-41634       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW12/29-41635       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 13.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW13/20-41636       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW14/29-43777       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls          | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 1138DW/29-19540        | Redacted - Privacy Act      | /Wolf Press<br>1138 Pinebrook Rd., Tinton Falls | 215.00                   | 200.00                        | 33.00                                | D        | NJDEP                 |
| 7IG01/29-28128         | Redacted - Privacy Act      | 7 Violante Court, Eatontown                     | 40.00                    | 30.00                         | 8.00                                 | G        | NJDEP                 |
| 30DM01/29-13163        |                             | 30 Victor Ave., Eatontown                       | 51.00                    | 41.00                         | 5.00                                 | D        | NJDEP                 |
| 144DM01/29-16207       |                             | 144 Grant Ave., Eatontown                       | 117.00                   | 111.00                        | 12.00                                | D        | NJDEP                 |
| 11/29-25316            | Mobil Oil Corp.             | Block 8, Lot 5, Eatontown                       | 15.00                    | 4.00                          | 6.40                                 | M        | NJDEP                 |
| 12/29-25317            | Mobil Oil Corp.             | Block 8, Lot 5, Eatontown                       | 15.00                    | 5.00                          | 6.70                                 | M        | NJDEP                 |
| 13/29-25318            | Mobil Oil Corp.             | Block 8, Lot 5, Eatontown                       | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 14/29-25319            | Mobil Oil Corp.             | Block 8, Lot 5, Eatontown                       | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |

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|------------------------|------------------------|-----------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 15/29-25320            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 16/29-26053            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 17/29-26054            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 18/29-26055            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 15.00                    | 5.00                          | *                                    | M        | NJDEP                 |
| 19/29-26056            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 23/29-27770            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 23.00                    | 3.00                          | 8.00                                 | E        | NJDEP                 |
| 24/29-27771            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 18.00                    | 5.00                          | 8.00                                 | E        | NJDEP                 |
| 25/29-27772            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 18.00                    | 5.00                          | 8.00                                 | E        | NJDEP                 |
| 26/29-27773            | Mobil Oil Corp.        | Block 8, Lot 5, Eatontown         | 18.00                    | 5.00                          | 8.00                                 | E        | NJDEP                 |
| 46/29-26806            | Exxon Corp.            | Block 2; Lot 7.01, 8, Eatontown   | 15.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| 47/29-26807            | Exxon Corp.            | Block 2; Lot 7.01, 8, Eatontown   | 16.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| 48/29-26808            | Exxon Corp.            | Block 2; Lot 7.01, 8, Eatontown   | 17.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| 49/29-26809            | Exxon Corp.            | Block 2; Lot 7.01, 8, Eatontown   | 17.00                    | 3.00                          | 5.00                                 | M        | NJDEP                 |
| 50/29-14593            | Amoco Oil Company      | Route 35 South, Eatontown         | 16.50                    | 1.50                          | 12.00                                | M        | NJDEP                 |
| 51/29-14594            | Amoco Oil Company      | Route 35 South, Eatontown         | 16.50                    | 1.50                          | 12.00                                | M        | NJDEP                 |
| 52/29-14595            | Amoco Oil Company      | Route 35 South, Eatontown         | 16.50                    | 1.50                          | 12.00                                | M        | NJDEP                 |
| 53/29-14596            | Amoco Oil Company      | Route 35 South, Eatontown         | 16.50                    | 1.50                          | 12.00                                | M        | NJDEP                 |
| EMMW06/29-53181        | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 30.00                    | 25.00                         | 10.00                                | M        | NJDEP                 |
| 160EMMW6/29-53180      | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 15.00                    | 2.00                          | 13.00                                | M        | NJDEP                 |
| RT35SMW19R/29-47025    | Equia Services         | Rt. 35 & South Street             | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| Rt.35SMW12R/29-47026   | Equia Services         | Rt. 35 & South Street             | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| RT.35SMW11R/29-47023   | Equia Services         | Rt. 35 & South Street             | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| EMMW12/29-45031        | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 8.00                     | 2.50                          | 4.00                                 | M        | NJDEP                 |
| Rt.35SMW04R/29-47022   | Equia Services         | Rt. 35 & South Street             | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| EMMW13/29-45251        | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 8.00                     | 2.70                          | 4.00                                 | M        | NJDEP                 |
| EMMW1/29-45153         | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 13.00                    | 2.70                          | 5.00                                 | M        | NJDEP                 |
| EMMW12/29-49532        | Exxon-Mobil            | Rt. 35 & Tinton Ave., Eatontown   | 15.00                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 84MW01/29-40281        | Redacted - Privacy Act | 84 High Street, Eatontown         | 30.00                    | 15.00                         | 18.00                                | M        | NJDEP                 |
| RW01202/29-56339       |                        | 202 Broad Street, Eatontown       | 15.00                    |                               |                                      | E        | NJDEP                 |
| RW02202/29-56341       |                        | 202 Broad Street, Eatontown       | 15.00                    |                               |                                      | E        | NJDEP                 |
| RW03202/29-56344       |                        | 202 Broad Street, Eatontown       | 15.00                    |                               |                                      | E        | NJDEP                 |
| IW01489/29-52789       |                        | 489 Driveway, Oceanport, NJ       | 170.00                   |                               |                                      | G        | NJDEP                 |
| DW018/29-46457         |                        | 9 Main Street, Oceanport, NJ      | 70.00                    |                               |                                      | D        | NJDEP                 |
| 814/29-26939           | US Army, Ft. Monmouth  | Bldg. 814 Main Post, Ft. Monmouth | 14.00                    | 4.00                          | 4.00                                 | M/S      | NJDEP                 |

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|------------------------|----------------------------------|-----------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 324/29-14168           | Vincent J. Russo, Bldr.          | Block 70.1, Lot 90, Little Silver | 184.00                   | 165.00                        | 5.00                                 | G        | NJDEP                 |
| L1/49-00551            | US Army, Ft. Monmouth            | Landfill, Main Post               | 9.85                     | 3.05                          | 5.08                                 | M        | NJDEP                 |
| L2/49-00552            | US Army, Ft. Monmouth            | Landfill, Main Post               | 16.99                    | 1.30                          | *                                    | M        | NJDEP                 |
| L3/49-00553            | US Army, Ft. Monmouth            | Landfill, Main Post               | 16.43                    | 1.62                          | 10.83                                | M        | NJDEP                 |
| L4/49-00554            | US Army, Ft. Monmouth            | Landfill, Main Post               | 10.25                    | 1.90                          | *                                    | M        | NJDEP                 |
| MW22498/29-32582       | US Army, Ft. Monmouth            | Bldg. 498 Main Post, Ft. Monmouth | 15.50                    | 4.50                          | 7.00                                 | M/S      | NJDEP                 |
| 250MW01/29-29742       | US Army, Ft. Monmouth            | Bldg. 250 Main Post, Ft. Monmouth | 25.00                    | 5.00                          | 7.00                                 | M/S      | NJDEP                 |
| 250MW02/29-29743       | US Army, Ft. Monmouth            | Bldg. 250 Main Post, Ft. Monmouth | 25.00                    | 5.00                          | 7.00                                 | M/S      | NJDEP                 |
| 250MW03/29-29744       | US Army, Ft. Monmouth            | Bldg. 250 Main Post, Ft. Monmouth | 25.00                    | 5.00                          | 7.00                                 | M/S      | NJDEP                 |
| 250MW04/29-29745       | US Army, Ft. Monmouth            | Bldg. 250 Main Post, Ft. Monmouth | 25.00                    | 5.00                          | 7.00                                 | M/S      | NJDEP                 |
| 9RW-00/29-49595        | Estate of Redacted - Privacy Act | 9 Monmouth Pl., Oceanport         | 15.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-01/29-56425        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-02/29-56426        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-03/29-56427        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-04/29-56428        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-05/29-56429        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-06/29-56430        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-07/29-56431        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 9RW-08/29-56432        | Estate of                        | 9 Monmouth Pl., Oceanport         | 13.00                    | *                             | *                                    | E        | NJDEP                 |
| 43IG-01/29-40568       | Redacted - Privacy Act           | 43 Park Ave., Eatontown           | 60.00                    | *                             | *                                    | G        | NJDEP                 |
| 43IG-02/29-42552       |                                  | 43 Park Ave., Eatontown           | 60.00                    | *                             | *                                    | G        | NJDEP                 |
| 29-04782               |                                  | Asbury Ave., Oceanport            | 50.00                    | 45.75                         | 7.00                                 | D        | NJDEP                 |
| DW12401/29-01016       |                                  | 128 Leonard Ave., Oceanport       | 150.00                   | 133.00                        | 2.00                                 | D        | NJDEP                 |
| 69903-1/29-11063       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 20.00                    | 0.00                          | 0.00                                 | M/S      | NJDEP                 |
| 69903-2/29-11064       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 23.00                    | 5.00                          | 0.00                                 | M/S      | NJDEP                 |
| 69903-3/29-11065       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 25.00                    | 5.00                          | 0.00                                 | M/S      | NJDEP                 |
| 69903-4/29-11066       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 25.00                    | 5.00                          | 0.00                                 | M/S      | NJDEP                 |
| 69903-5/29-11067       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 25.00                    | 5.00                          | 0.00                                 | M/S      | NJDEP                 |
| 69903-6/29-11068       | US Army, Ft. Monmouth            | Bldg. 699, Main Post              | 25.00                    | 5.00                          | 0.00                                 | M/S      | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

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|------------------------|-----------------------------------|-------------------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 5/29-27751             | The Ranney School                 | 235 Hope Rd., Tinton Falls                      | 14.00                    | 4.00                          | 8.00                                 | M        | NJDEP                 |
| 6/29-27752             | The Ranney School                 | 235 Hope Rd., Tinton Falls                      | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 7/29-27800             | The Ranney School                 | 235 Hope Rd., Tinton Falls                      | 12.00                    | 2.00                          | 3.67                                 | M        | NJDEP                 |
| 8/29-14431             | The Ranney School                 | 235 Hope Rd., Tinton Falls                      | 25.00                    | 5.00                          | 5.00                                 | G        | NJDEP                 |
| 9/29-11142             | Redacted - Privacy Act            | 27 Devon Court, Tinton Falls                    | 46.00                    | 32.00                         | 6.00                                 | G        | NJDEP                 |
| 10/29-21698            |                                   | 463 Tinton Ave., Tinton Falls                   | 186.00                   | 171.00                        | 32.00                                | D        | NJDEP                 |
| 20/29-26865            | Eatontown Board of Education      | 250 Pinebrook Rd., Eatontown                    | 12.00                    | 2.00                          | 10.00                                | M        | NJDEP                 |
| 21/29-26866            | Eatontown Board of Education      | 250 Pinebrook Rd., Eatontown                    | 12.00                    | 2.00                          | 10.00                                | M        | NJDEP                 |
| 22/29-26867            | Eatontown Board of Education      | 250 Pinebrook Rd., Eatontown                    | 12.00                    | 2.00                          | 10.00                                | M        | NJDEP                 |
| 27/29-28140            | Redacted - Privacy Act            | 539 Tinton Ave., Tinton Falls                   | 261.00                   | 241.00                        | 21.00                                | D        | NJDEP                 |
| 28/29-28781            | County of Monmouth                | Hwy. District 316 (B-97, L-21.01), Tinton Falls | 17.00                    | 7.00                          | 11.08                                | M        | NJDEP                 |
| 29/29-28782            | County of Monmouth                | Hwy. District 316 (B-97, L-21.01), Tinton Falls | 17.00                    | 7.00                          | 7.17                                 | M        | NJDEP                 |
| 30/29-29607            | County of Monmouth                | Hwy. District 316 (B-97, L-21.01), Tinton Falls | 17.50                    | 7.50                          | 8.33                                 | M        | NJDEP                 |
| 31/29-29623            | County of Monmouth                | Hwy. District 316 (B-97, L-21.01), Tinton Falls | 14.00                    | 4.00                          | 6.56                                 | M        | NJDEP                 |
| 32/29-16775            | NJDOT                             | Block 113, Lot 8A, 9A, Tinton Falls             | 63.00                    | 58.00                         | *                                    | M        | NJDEP                 |
| 33/29-16776            | NJDOT                             | Block 113, Lot 8A, 9A, Tinton Falls             | 76.50                    | 71.50                         | *                                    | M        | NJDEP                 |
| 34/29-27443            | County of Monmouth                | 143A Wayside Road, Tinton Falls                 | 17.00                    | 7.00                          | 11.33                                | M        | NJDEP                 |
| 35/29-27444            | County of Monmouth                | 143A Wayside Road, Tinton Falls                 | 17.00                    | 7.00                          | 11.50                                | M        | NJDEP                 |
| 36/29-27453            | Redacted - Privacy Act Monmouth   | 143A Wayside Road, Tinton Falls                 | 17.50                    | 7.50                          | 11.75                                | M        | NJDEP                 |
| 37/29-23921            | Redacted - Privacy Act Aris Corp. | Block 114.01, Lot 21.02, Tinton Falls           | 12.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 38/29-25775            | Redacted - Privacy Act            | Block 114.01, Lot 21.02, Tinton Falls           | 12.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 39/29-26312            |                                   | Block 114.01, Lot 21.02, Tinton Falls           | 8.00                     | 0.00                          | 4.00                                 | M        | NJDEP                 |
| 40/29-29421            | Redacted - Privacy Act            | 46 Park Road, Tinton Falls                      | 13.00                    | 3.00                          | 3.50                                 | M        | NJDEP                 |
| 41/29-23919            | Redacted - Privacy Act Aris Corp. | Block 114.01, Lot 21.02, Tinton Falls           | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 42/29-23290            | Aris Corp.                        | Block 114.01, Lot 21.02, Tinton Falls           | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 43/29-23916            | Aris Corp.                        | Block 114.01, Lot 21.02, Tinton Falls           | 9.00                     | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 44/29-23917            | Aris Corp.                        | Block 114.01, Lot 21.02, Tinton Falls           | 13.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 45/29-23918            | Aris Corp.                        | Block 114.01, Lot 21.02, Tinton Falls           | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 54/29-2952             | Redacted - Privacy Act            | 11 West Front Street, Eatontown                 | 150.00                   | 150.00                        | 7.00                                 | D        | NJDEP                 |
| 11IW0129-13187         |                                   | 11 West Street, Eatontown                       | 80.00                    | 41.00                         | 15.00                                | G        | NJDEP                 |
| 151IW0129-40917        |                                   | 151 Nottingham Drive, Eatontown                 | 80.00                    | 57.00                         | 26.00                                | G        | NJDEP                 |
| 12IW0129-48592         |                                   | 12 Tess Court, Eatontown                        | 227.00                   | 220.00                        | 40.00                                | G        | NJDEP                 |
| 20IW0129-47044         |                                   | 20 Tess Court, Eatontown                        | 228.00                   | 225.00                        | 60.00                                | G        | NJDEP                 |

**Fort Monmouth, New Jersey  
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|------------------------|-------------------------------|------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 145IW01/29-38660       | Redacted - Privacy Act        | 145 Nottingham Drive, Eatontown    | 80.00                    | 54.00                         | 22.00                                | G        | NJDEP                 |
| MCMW01/29-39917        | Monmouth County Dept of bldg. | Pinebrook Rd, Tinton Falls         | 11.00                    | 10.00                         | 3.00                                 | M        | NJDEP                 |
| METMW13/29-57012       | Mid-Monmouth Realty Assoc.    | Pinebrook Rd, Tinton Falls         | 12.00                    | 10.00                         | 3.00                                 | M        | NJDEP                 |
| METMW14/29-57013       | Mid-Monmouth Realty Assoc.    | Pinebrook Rd, Tinton Falls         | 12.00                    | 10.00                         | 3.00                                 | M        | NJDEP                 |
| METMW11/29-57010       | Mid-Monmouth Realty Assoc.    | Pinebrook Rd, Tinton Falls         | 12.00                    | 10.00                         | 3.00                                 | M        | NJDEP                 |
| METMW12/29-57011       | Mid-Monmouth Realty Assoc.    | Pinebrook Rd, Tinton Falls         | 12.00                    | 10.00                         | 3.00                                 | M        | NJDEP                 |
| 556MW06/29-55482       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 9.80                          | 18.00                                | M        | NJDEP                 |
| 556MW05/29-55481       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 9.80                          | 18.00                                | M        | NJDEP                 |
| 556MW04/29-55480       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 9.80                          | 18.00                                | M        | NJDEP                 |
| 556MW03/29-46215       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 14.50                         | 20.00                                | M        | NJDEP                 |
| 556MW02/29-46214       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 14.50                         | 20.00                                | M        | NJDEP                 |
| 556MW0129-46213        | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 14.50                         | 20.00                                | M        | NJDEP                 |
| 556MW01/29-55482       | Tinton Falls                  | 556 Tinton Ave., Tinton Falls      | 30.00                    | 14.50                         | 20.00                                | M        | NJDEP                 |
| 84MW01/29-40281        | Redacted - Privacy Act        | 84 High Street, Eatontown          | 30.00                    | 15.00                         | 18.00                                | M        | NJDEP                 |
| EMMW06/29-53181        | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 30.00                    | 25.00                         | 10.00                                | M        | NJDEP                 |
| 160EMMW6/29-53180      | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 15.00                    | 2.00                          | 13.00                                | M        | NJDEP                 |
| RT35SMW19R/29-47025    | Equia Services                | Rt. 35 & South Street              | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| Rt.35SMW12R/29-47026   | Equia Services                | Rt. 35 & South Street              | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| RT.35SMW11R/29-47023   | Equia Services                | Rt. 35 & South Street              | 15.00                    | 13.00                         | 4.00                                 | M        | NJDEP                 |
| EMMW12/29-45031        | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 8.00                     | 2.50                          | 4.00                                 | M        | NJDEP                 |
| Rt.35SMW04R/29-47022   | Equia Services                | Rt. 35 & South Street              | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| EMMW13/29-45251        | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 8.00                     | 2.70                          | 4.00                                 | M        | NJDEP                 |
| EMMW1/29-45153         | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 13.00                    | 2.70                          | 5.00                                 | M        | NJDEP                 |
| 35MW01/29-50796        | Redacted - Privacy Act        | 35 Tinton Ave, Eatontown           | 23.00                    | 7.70                          | 15.00                                | M        | NJDEP                 |
| EMMW12/29-49532        | Exxon-Mobil                   | Rt. 35 & Tinton Ave., Eatontown    | 15.00                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 166MW01/29-53713       | Redacted - Privacy Act        | 166 Tinton Ave., Eatontown         | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 525DW01/29-40296       |                               | 525 Tinton Ave, Tinton Falls       | 191.00                   | 166.00                        | 21.00                                | D        | NJDEP                 |
| 521RDW01/29-39028      |                               | 521 Tinton Ave, Tinton Falls       | 186.00                   | 166.00                        | 40.00                                | D-1      | NJDEP                 |
| MRSIW1/29-38654        | Monmouth Regional High School | One Norman Field Way, Tinton Falls | 173.00                   | 158.00                        | 14.00                                | G        | NJDEP                 |
| 43IW01/29-48605        | Redacted - Privacy Act        | 43 Devon Ct., Tinton Falls         | 80.00                    | 70.00                         | 16.00                                | G        | NJDEP                 |
| 539MW01/29-46032       |                               | 539 Tinton Ave., Tinton Falls      | 14.00                    | 1.75                          | 3.00                                 | M        | NJDEP                 |
| 531RDW01/29-46811      |                               | 531 Tinton Ave., Tinton Falls      | 186.00                   | 166.00                        | 16.00                                | D-1      | NJDEP                 |
| 539MW02/29-48007       | Concession Supply Co. Inc     | 539 Tinton Ave., Tinton Falls      | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey**  
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|------------------------|-------------------------------|---------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| 539MW03/29-48008       | Concession Supply Co. Inc     | 539 Tinton Ave., Tinton Falls         | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 539MW04/29-48699       | Redacted - Privacy Act        | 539 Tinton Ave., Tinton Falls         | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| MRSIW3/29-52364        | Monmouth Regional High School | One Norman Field Way, Tinton Falls    | 300.00                   | 260.00                        | 27.00                                | G        | NJDEP                 |
| MRSIW2/29-45800        | Monmouth Regional High School | One Norman Field Way, Tinton Falls    | 305.00                   | 265.00                        | 45.00                                | G        | NJDEP                 |
| MRSIW4/29-52099        | Monmouth Regional High School | One Norman Field Way, Tinton Falls    | 300.00                   | 260.00                        | 27.00                                | G        | NJDEP                 |
| 556IW1/29-51969        | Boro of Tinton Falls          | 556 Tinton Ave., Tinton Falls         | 295.00                   | 245.00                        | 40.00                                | G        | NJDEP                 |
| 556IW2/29-51968        | Boro of Tinton Falls          | 556 Tinton Ave., Tinton Falls         | 310.00                   | 260.00                        | 40.00                                | G        | NJDEP                 |
| GSP104MW03/29-48257    | NJ Highway Authority          | Mile Post 104 GSP                     | 25.00                    | 15.00                         | 16.00                                | M        | NJDEP                 |
| GSP104MW02/29-48256    | NJ Highway Authority          | Mile Post 104 GSP                     | 25.00                    | 15.00                         | 16.00                                | M        | NJDEP                 |
| GSP104MW01/29-48255    | NJ Highway Authority          | Mile Post 104 GSP                     | 25.00                    | 15.00                         | 16.00                                | M        | NJDEP                 |
| CW1MW026 /29-32590     | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 16.00                    | 5.00                          | 9.00                                 | M        | NJDEP                 |
| CW1MW027 /29-32591     | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 16.00                    | 5.00                          | 9.00                                 | M        | NJDEP                 |
| CW1MW028/29-32592      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| CW1MW029/29-32593      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 15.00                    | 5.00                          | 7.50                                 | M        | NJDEP                 |
| CW1MW281/29-35312      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 50.00                    | 31.00                         | 10.00                                | M        | NJDEP                 |
| CW1MW282/29-35313      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 42.00                    | 6.00                          | 10.00                                | M        | NJDEP                 |
| CW1MW291/29-35314      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 34.00                    | 6.00                          | 10.00                                | M        | NJDEP                 |
| CW1MW030/29-43188      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 17.00                    | 7.00                          | 8.00                                 | M        | NJDEP                 |
| CW1MW031/29-43189      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 19.00                    | 4.00                          | 3.00                                 | M        | NJDEP                 |
| CW1MW032/29-43190      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 22.00                    | 7.00                          | 3.00                                 | M        | NJDEP                 |
| CW1MW033/29-43191      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 3.00                                 | M        | NJDEP                 |
| CW1MW034/29-43192      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| CW1MW035/29-43193      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| CW1MW036/29-43194      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| CW1MW037/29-43195      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| CW1MW038/29-43186      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 50.00                    | 30.00                         | 8.00                                 | M        | NJDEP                 |
| CW1MW039/29-43185      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 48.00                    | 28.00                         | 8.00                                 | M        | NJDEP                 |
| CW1MW040/29-43187      | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 50.00                    | 20.00                         | 8.00                                 | M        | NJDEP                 |
| CW1RW01/29-44633       | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 23.00                    | 5.00                          | *                                    | E        | NJDEP                 |
| CW1RW02/29-45955       | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 23.50                    | 8.50                          | *                                    | E        | NJDEP                 |
| CW1SPG1/29-37737       | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 22.00                    | 19.00                         | *                                    | E        | NJDEP                 |
| CW1SPG2/29-37738       | US Army, Ft. Monmouth         | CW-1(2700) Charles Wood, Ft. Monmouth | 22.00                    | 19.00                         | *                                    | E        | NJDEP                 |

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|------------------------|--------------------------------|--------------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| CW6MW01/29-30970       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| CW6MW02/29-30971       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| CW6MW03/29-30972       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| CW6MW34/29-32599       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 4.50                          | 6.00                                 | M        | NJDEP                 |
| CW6MW35/29-32600       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 4.50                          | 3.00                                 | M        | NJDEP                 |
| CW6MW36/29-32601       | US Army, Ft. Monmouth          | CW-6 (2044) Charles Wood, Ft. Monmouth     | 15.00                    | 4.50                          | 4.00                                 | M        | NJDEP                 |
| 2567MW01/29-26925      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 2567MW02/29-26926      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 13.00                    | 3.00                          | 5.50                                 | M        | NJDEP                 |
| 2567MW03/29-26927      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 2567MW04/29-26928      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 12.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 2567MW05/29-31783      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 12.50                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 2567MW06/29-42585      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 2567MW07/29-42586      | US Army, Ft. Monmouth          | Bldg. 2567, Charles Wood, Ft. Monmouth     | 13.00                    | 3.00                          | 4.00                                 | M        | NJDEP                 |
| 2534MW01/29-31789      | US Army, Ft. Monmouth          | Bldg. 2534, Charles Wood, Ft. Monmouth     | 12.50                    | 2.00                          | 8.00                                 | M        | NJDEP                 |
| 2337MW01/29-31787      | US Army, Ft. Monmouth          | Bldg. 2337, Charles Wood, Ft. Monmouth     | 12.50                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| GV1/29-37037           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 23.00                    | 19.00                         | 6.20                                 | V        | NJDEP                 |
| GV2/29-37036           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 8.00                     | 3.00                          | 6.20                                 | V        | NJDEP                 |
| MCMW-6/29-36571        | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 15.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| GV3/29-26570           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 28.00                    | 23.00                         | 9.00                                 | V        | NJDEP                 |
| GV4/29-36569           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 28.00                    | 23.00                         | 8.50                                 | V        | NJDEP                 |
| GV5/29-36568           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 30.00                    | 25.00                         | 9.00                                 | V        | NJDEP                 |
| GV6/29-36567           | Monmouth County Dept. of Bldg. | Pine Brook Rd., Tinton Falls               | 5.00                     | 4.00                          | *                                    | V        | NJDEP                 |
| CW2MW30/29-32594       | US Army, Ft. Monmouth          | CW-2 (2700) Charles Wood, Ft. Monmouth     | 16.00                    | 6.00                          | 10.00                                | M/S      | NJDEP                 |
| CW2MW31/29-32595       | US Army, Ft. Monmouth          | CW-2 (2700) Charles Wood, Ft. Monmouth     | 15.00                    | 5.00                          | 5.50                                 | M/S      | NJDEP                 |
| CW2MW32/29-32596       | US Army, Ft. Monmouth          | CW-2 (2700) Charles Wood, Ft. Monmouth     | 15.00                    | 5.00                          | 5.50                                 | M/S      | NJDEP                 |
| CW2MW33/29-32597       | US Army, Ft. Monmouth          | CW-2 (2700) Charles Wood, Ft. Monmouth     | 15.00                    | 5.00                          | 5.50                                 | M/S      | NJDEP                 |
| CW3AMW01/29-38021      | US Army, Ft. Monmouth          | CW-3, Landfill, Charles Wood, Ft. Monmouth | 20.00                    | 5.00                          | 12.00                                | M        | NJDEP                 |
| CW3AMW02/29-38022      | US Army, Ft. Monmouth          | CW-3, Landfill, Charles Wood, Ft. Monmouth | 17.00                    | 5.00                          | 6.50                                 | M        | NJDEP                 |
| CW3AMW03/29-38023      | US Army, Ft. Monmouth          | CW-3, Landfill, Charles Wood, Ft. Monmouth | 13.50                    | 3.50                          | *                                    | M        | NJDEP                 |
| CW4AMW04/29-38024      | US Army, Ft. Monmouth          | CW-3, Landfill, Charles Wood, Ft. Monmouth | 16.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| 2000MW01/29-31777      | US Army, Ft. Monmouth          | Bldg. 2000, Charles Wood, Ft. Monmouth     | 12.00                    | 2.00                          |                                      | M        | NJDEP                 |
| ISW6/29-32158          | US Army, Ft. Monmouth          | Irrigation wells, Ft. Monmouth Golf Course | 50.00                    | 15.00                         | 6.00                                 | G        | NJDEP                 |
| ISW5/29-32162          | US Army, Ft. Monmouth          | Irrigation wells, Ft. Monmouth Golf Course | 48.00                    | 16.00                         | 6.50                                 | G        | NJDEP                 |

**Fort Monmouth, New Jersey**  
**May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner                  | Well Address                               | Total Depth<br>(in feet) | Length of Casing<br>(in feet) | Static water<br>elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------------|--------------------------------------------|--------------------------|-------------------------------|--------------------------------------|----------|-----------------------|
| ISW4/29-32161          | US Army, Ft. Monmouth       | Irrigation wells, Ft. Monmouth Golf Course | 45.00                    | 14.50                         | 6.00                                 | G        | NJDEP                 |
| ISW3/29-32160          | US Army, Ft. Monmouth       | Irrigation wells, Ft. Monmouth Golf Course | 50.00                    | 18.00                         | 8.00                                 | G        | NJDEP                 |
| ISW2/29032159          | US Army, Ft. Monmouth       | Irrigation wells, Ft. Monmouth Golf Course | 50.00                    | 18.50                         | 6.00                                 | G        | NJDEP                 |
| 2018MW01/29-35763      | US Army, Ft. Monmouth       | Bldg. 2018, Charles Wood                   | 16.00                    | 4.00                          | *                                    | M/S      | NJDEP                 |
| 2067MW01/29-31778      | US Army, Ft. Monmouth       | Bldg. 2067, Charles Wood                   | 12.50                    | 2.50                          | *                                    | M/S      | NJDEP                 |
| 2067MW02/29-31779      | US Army, Ft. Monmouth       | Bldg. 2067, Charles Wood                   | 12.50                    | 2.50                          | *                                    | M/S      | NJDEP                 |
| 2562MW01/29-30958      | US Army, Ft. Monmouth       | Bldg. 2562, Charles Wood                   | 12.50                    | 2.00                          | *                                    | M/S      | NJDEP                 |
| 2562MW02-29-30959      | US Army, Ft. Monmouth       | Bldg. 2562, Charles Wood                   | 15.00                    | 5.00                          | *                                    | M/S      | NJDEP                 |
| 2562MW03/29-30960      | US Army, Ft. Monmouth       | Bldg. 2562, Charles Wood                   | 15.00                    | 5.00                          | *                                    | M/S      | NJDEP                 |
| 2537MW01/29-31787      | US Army, Ft. Monmouth       | Bldg. 2537, Charles Wood                   | 12.50                    | 2.00                          | *                                    | M        | NJDEP                 |
| 2602MW01/29-40888      | US Army, Ft. Monmouth       | Bldg. 2602, Charles Wood                   | 13.00                    | 1.75                          | *                                    | M        | NJDEP                 |
| 2700MW04/29-30969      | US Army, Ft. Monmouth       | Bldg. 2700, Charles Wood                   | 20.00                    | 9.50                          | *                                    | M        | NJDEP                 |
| 2700MW06/29-31778      | US Army, Ft. Monmouth       | Bldg. 2700, Charles Wood                   | 20.00                    | 1.50                          | *                                    | M        | NJDEP                 |
| 3012MW1/29-26929       | US Army, Ft. Monmouth       | Bldg. 3021, Pine Brook, Ft. Monmouth       | 12.00                    | 2.00                          | *                                    | M        | NJDEP                 |
| 3021MW2/29-26930       | US Army, Ft. Monmouth       | Bldg. 3021, Pine Brook, Ft. Monmouth       | 12.00                    | 2.00                          | *                                    | M        | NJDEP                 |
| 3021MW3/29-26931       | US Army, Ft. Monmouth       | Bldg. 3021, Pine Brook, Ft. Monmouth       | 11.00                    | 1.00                          | *                                    | M        | NJDEP                 |
| 2603MW01/2-40888       | US Army, Ft. Monmouth       | Bldg. 2603, Charles Wood                   | 13.00                    | 1.50                          | 1.80                                 | M        | NJDEP                 |
| 980MW01/29-40077       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls           | 12.50                    | 2.50                          | 3.00                                 | M        | NJDEP                 |
| 980MW02/29-40078       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls           | 14.00                    | 2.00                          | 3.00                                 | M        | NJDEP                 |
| 980MW03/29-40079       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls           | 12.00                    | 2.00                          | 4.80                                 | M        | NJDEP                 |
| 980MW05/29-51884       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls           | 13.00                    | 3.00                          | 3.50                                 | M        | NJDEP                 |
| 980MW06/29-51885       | New Plan Excel Reality      | 980 Shrewsbury Ave, Tinton Falls           | 13.00                    | 3.00                          | 3.00                                 | M        | NJDEP                 |
| NRDMW07/29-39066       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 15.00                    | 4.50                          | 8.00                                 | M        | NJDEP                 |
| NRDMW08/29-39067       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 64.00                    | 44.00                         | 12.00                                | M        | NJDEP                 |
| NRDMW09/29-40631       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 15.00                    | 5.00                          | 8.00                                 | M        | NJDEP                 |
| NRDMW10/29-41633       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW11/29-41634       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 12.00                    | 2.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW12/29-41635       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 13.00                    | 3.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW13/20-41636       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 14.00                    | 4.00                          | 6.00                                 | M        | NJDEP                 |
| NRDMW14/29-43777       | National Realty Development | Rt. 35 & Shrewsbury Ave., Tinton Falls     | 15.00                    | 5.00                          | 7.00                                 | M        | NJDEP                 |
| 246/29-47022           | Equiva Services             | Rt. 35 & South Street, Eatontown           | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 247/29-47023           | Equiva Services             | Rt. 35 & South Street, Eatontown           | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 248/29-47024           | Equiva Services             | Rt. 35 & South Street, Eatontown           | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 249/29-47025           | Equiva Services             | Rt. 35 & South Street, Eatontown           | 15.00                    | 2.00                          | 4.00                                 | M        | NJDEP                 |
| 250/29-45153           | Exxon-Mobil Corp            | Rt.35 & Tinton Ave., Eatontown             | 13.00                    | 2.70                          | 5.00                                 | M        | NJDEP                 |
| 251/29-45251           | Exxon-Mobil Corp            | Rt. 35 & Tinton Ave., Eatontown            | 8.00                     | 2.70                          | 4.00                                 | M        | NJDEP                 |
| 252/29-45031           | Exxon-Mobil Corp            | Rt. 35 & Tinton Ave., Eatontown            | 8.00                     | 2.50                          | 4.00                                 | M        | NJDEP                 |
| 253/29-50796           | Redacted - Privacy Act      | 35 Tinton Ave., Eatontown                  | 23.00                    | 8.00                          | 15.00                                | M        | NJDEP                 |
| 254/29-49532           | Exxon-Mobil Corp            | Rt. 35 & Tinton Ave., Eatontown            | 15.00                    | 2.50                          | 7.00                                 | M        | NJDEP                 |
| 309/29-47072           | Redacted - Privacy Act      | 43 Oak Lane, Eatontown                     | 8.50                     | 3.00                          | 6.00                                 | M        | NJDEP                 |
| 310/29-47071           |                             | 43 Oak Lane, Eatontown                     | 9.50                     | 3.50                          | 5.00                                 | M        | NJDEP                 |
| 311/29-47070           |                             | 43 Oak Lane, Eatontown                     | 9.50                     | 2.00                          | 6.00                                 | M        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner            | Well Address                        | Total Depth (in feet) | Length of Casing (in feet) | Static water elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------|-------------------------------------|-----------------------|----------------------------|-----------------------------------|----------|-----------------------|
| Geo-1/29-39550         | US Army, Ft. Monmouth | Bldg. 2700, Charles Wood            | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-2/29-45846         | US Army, Ft. Monmouth | Corrigador Rd., Charles Wood        | 404                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-3/29-47795         | US Army, Ft. Monmouth | Corrigador Rd., Charles Wood        | 404                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-4/29-40473         | US Army, Ft. Monmouth | Charles Wood (Main Street)          | 304                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-5/29-40203         | US Army, Ft. Monmouth | Charles Wood (Main Street)          | 304                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-6/29-49430         | US Army, Ft. Monmouth | Bldg. 2539, Charles Wood            | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-7/29-51514         | US Army, Ft. Monmouth | Quartz Ave. Battery Test Facility   | 400                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-8/29-51834         | US Army, Ft. Monmouth | Saltzman Ave. Recruit Command Cntr. | 420                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-9/29-53242         | US Army, Ft. Monmouth | Bldg. 603 (Piegion & Sherrill Aves) | 360                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-10/29-4415         | US Army, Ft. Monmouth | Charles Wood (Main Street)          | 426                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-11/29-43966        | US Army, Ft. Monmouth | Charles Wood (Main Street)          | 400                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-12/29-53243        | US Army, Ft. Monmouth | Bldg. 603 (Piegion & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-13/29-50067        | US Army, Ft. Monmouth | Bldg. 801, Moonshot Dr.             | 405                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-14/29-51831        | US Army, Ft. Monmouth | Saltzman Ave. Recruit Command Cntr. | 420                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-15/29-51832        | US Army, Ft. Monmouth | Saltzman Ave. Recruit Command Cntr. | 420                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-16/29-51833        | US Army, Ft. Monmouth | Saltzman Ave. Recruit Command Cntr. | 420                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-17/29-49433        | US Army, Ft. Monmouth | Bldg. 2539, Charles Wood            | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-18/29-53244        | US Army, Ft. Monmouth | Bldg. 603 (Piegion & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-19/29-53245        | US Army, Ft. Monmouth | Bldg. 603 (Piegion & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-20/29-53242        | US Army, Ft. Monmouth | Bldg. 603 (Piegion & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-21/29-51044        | US Army, Ft. Monmouth | Bldg. 801, Moonshot Dr.             | 410                   | n/a                        | n/a                               | H        | NJDEP                 |

**Fort Monmouth, New Jersey  
May 2009 Well Search Summary Table**

| Well ID No. and permit | Well Owner            | Well Address                       | Total Depth (in feet) | Length of Casing (in feet) | Static water elevation (feet BGS) | Use code | Source of information |
|------------------------|-----------------------|------------------------------------|-----------------------|----------------------------|-----------------------------------|----------|-----------------------|
| Geo-22/29-39551        | US Army, Ft. Monmouth | Bldg. 2700, Charles Wood           | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-23/29-49431        | US Army, Ft. Monmouth | Bldg. 2539, Charles Wood           | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-24/29-49432        | US Army, Ft. Monmouth | Bldg. 2539, Charles Wood           | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-25/29-52757        | US Army, Ft. Monmouth | Bldgs. 1207 & 1208, Rittko Ave.    | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-26/29-52588        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-27/29-52589        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-28/29-52587        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-29/29-52591        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-30/29-52592        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-31/29-52593        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-32/29-52594        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-33/29-52587        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-34/29-52594        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-35/29-51426        | US Army, Ft. Monmouth | Bldg. 1200, Tosell Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-36/29-52590        | US Army, Ft. Monmouth | Bldg. 1212, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-37/29-53248        | US Army, Ft. Monmouth | Bldg. 603 (Piegon & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-38/29-53246        | US Army, Ft. Monmouth | Bldg. 603 (Piegon & Sherrill Aves) | 350                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-39/29-53300        | US Army, Ft. Monmouth | Bldg. 1206, De Rum Ave.            | 425                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-40/29-50066        | US Army, Ft. Monmouth | Bldg. 1152 Ave. of Memories        | 405                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-41/29-45017        | US Army, Ft. Monmouth | Abbey Rd.                          | 305                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-42/29-44608        | US Army, Ft. Monmouth | Carty St.                          | 304                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-43/29-47715        | US Army, Ft. Monmouth | Bldg. 2525, Charles Wood           | 404                   | n/a                        | n/a                               | H        | NJDEP                 |
| Geo-44/29-46966        | US Army, Ft. Monmouth | Charles Wood (Main Street)         | 400                   | n/a                        | n/a                               | H        | NJDEP                 |

M= monitoring well  
J = injection well  
E = recovery well  
D = domestic well  
G = irrigation well

/s = sealed/abandoned well  
W = dewatering well  
H = heat well/geothermal

## **Exhibit G**

### **Public Notification Addresses**

**Note:**

**The proposed CEA is limited to Fort Monmouth property; therefore notification of off-site property owners is not required**

## **NJDEP CEA Notification Requirements Oceanport NJ**

**The following Departments were notified to establish the  
Classification Exception Area.  
Certified Letters, return receipt requested, were mailed.**

**NJDEP Bureau of Safe Drinking Water  
401 East State Street  
Trenton, NJ 08625**



**NJDEP Bureau of Water Allocation  
401 East State Street  
Trenton, NJ 08625**



**Monmouth County Clerk  
M. Claire French  
33 Mechanic Street  
Freehold, NJ 07728**



**Monmouth County Planning Board  
Robert Clark, Director  
One East Main Street  
Freehold, NJ 07728-1255**



**Monmouth County Environmental Council  
One East Main Street  
Freehold, NJ 07728-1255**



**Monmouth County Health Department  
3435 Hwy 9  
Freehold, NJ 07728**



**Borough of Oceanport  
Borough Clerk  
222 Monmouth Boulevard  
P.O. Box 370  
Oceanport, NJ 07757**